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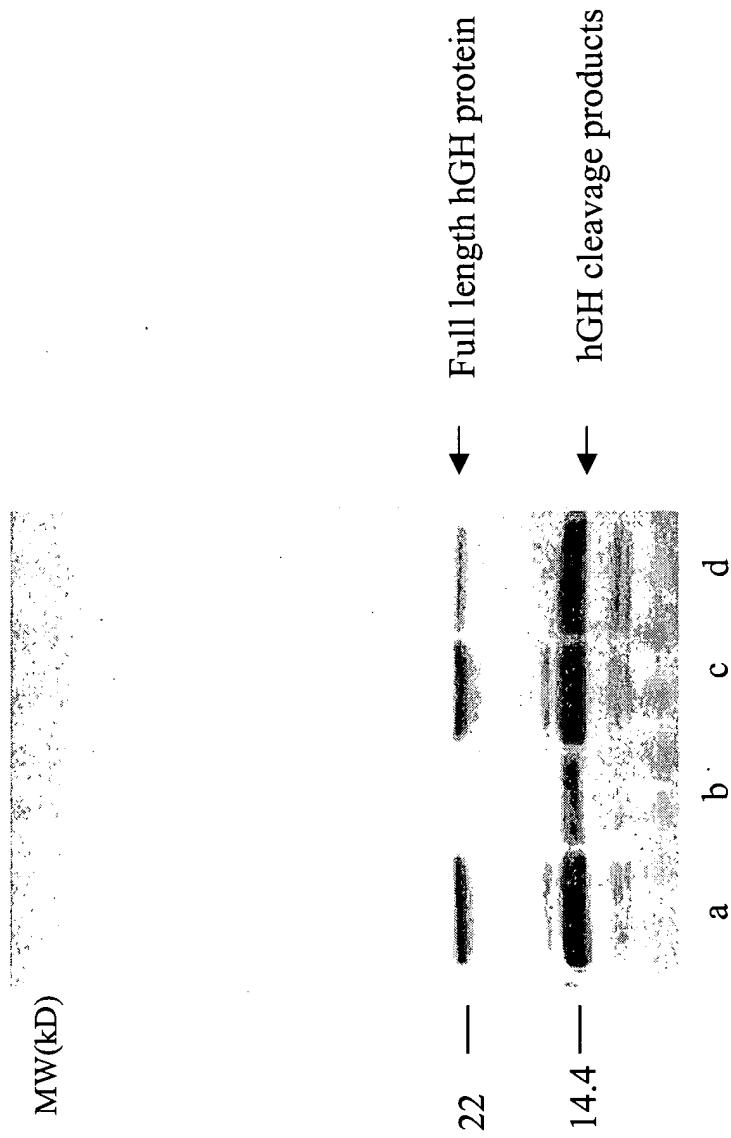
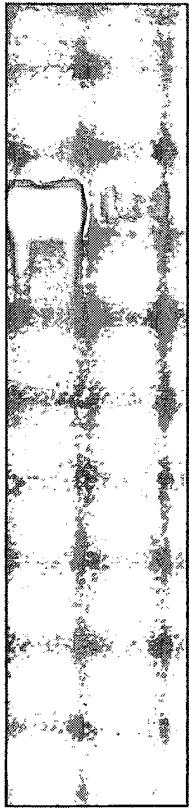


FIGURE 1



-PMSF, 5ul
+PMSF, 5ul

FIGURE 2

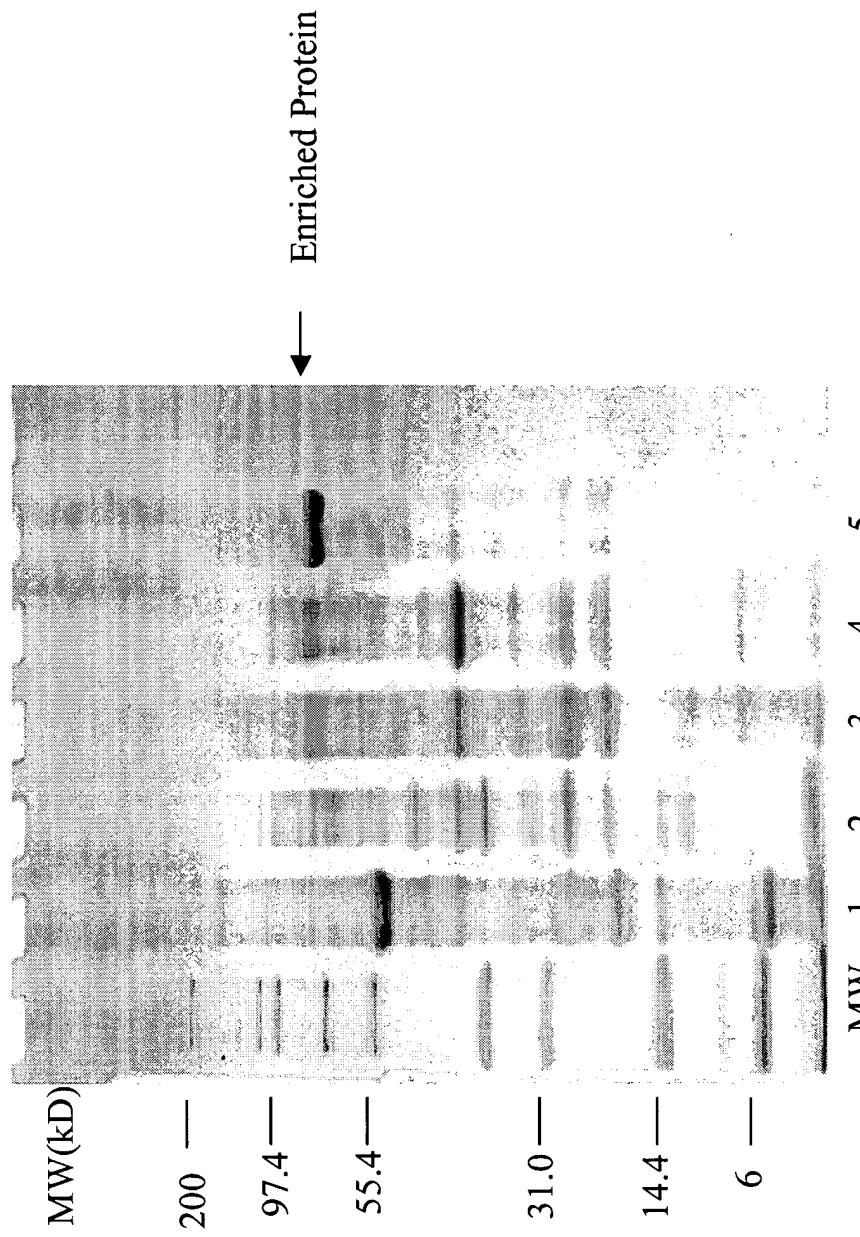


FIGURE 3



Nicotianalisin

SEQID NO:30

TTHTSQFLGL

Tomato

P69A	TTHTSSFLGL
P69B	TTHTPSFLGL
P69C	TTHTPSFLGL
P69D	TTHTPSFLGL
SBT1	TTRSPTFLGL
SBT2	TTRSPLFLGL
SBT3	TTHTSDFLKL
SBT4B	TTHTSDFLKL
SBT4	TTYTGYLKL

Arabidopsis

Air3	TTRSWDFLGL
Ara12	TTRTPLFLGL

Consensus

TT FL L

FIGURE 4

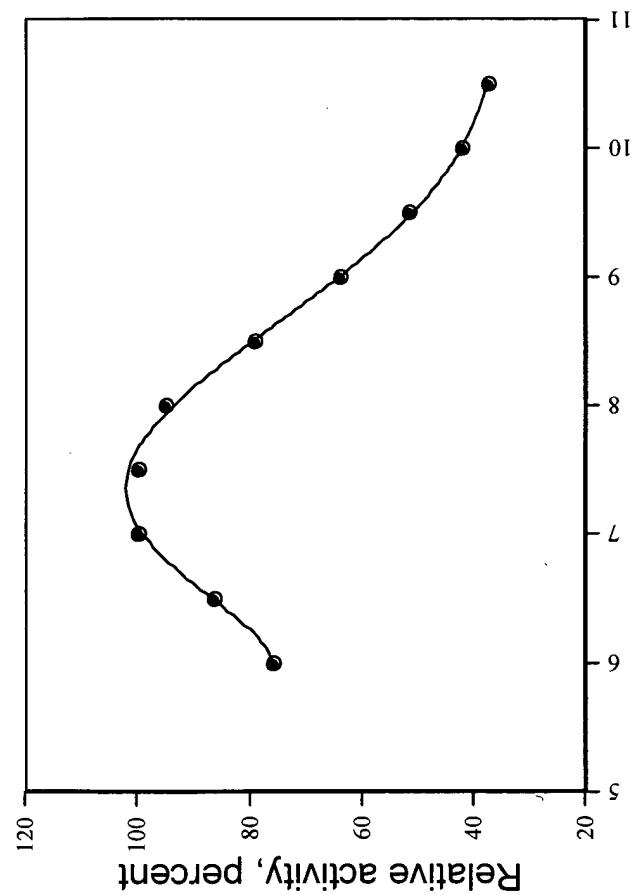


FIGURE 5



1 10 20 30

Nicotianalisin

Cucumisin

Taraxalisin

Macluralin

↓ ↓ ↓ ↓

↓ ↓ ↓ ↓

↓ ↓ ↓ ↓

↓ ↓ ↓ ↓

FIGURE 6

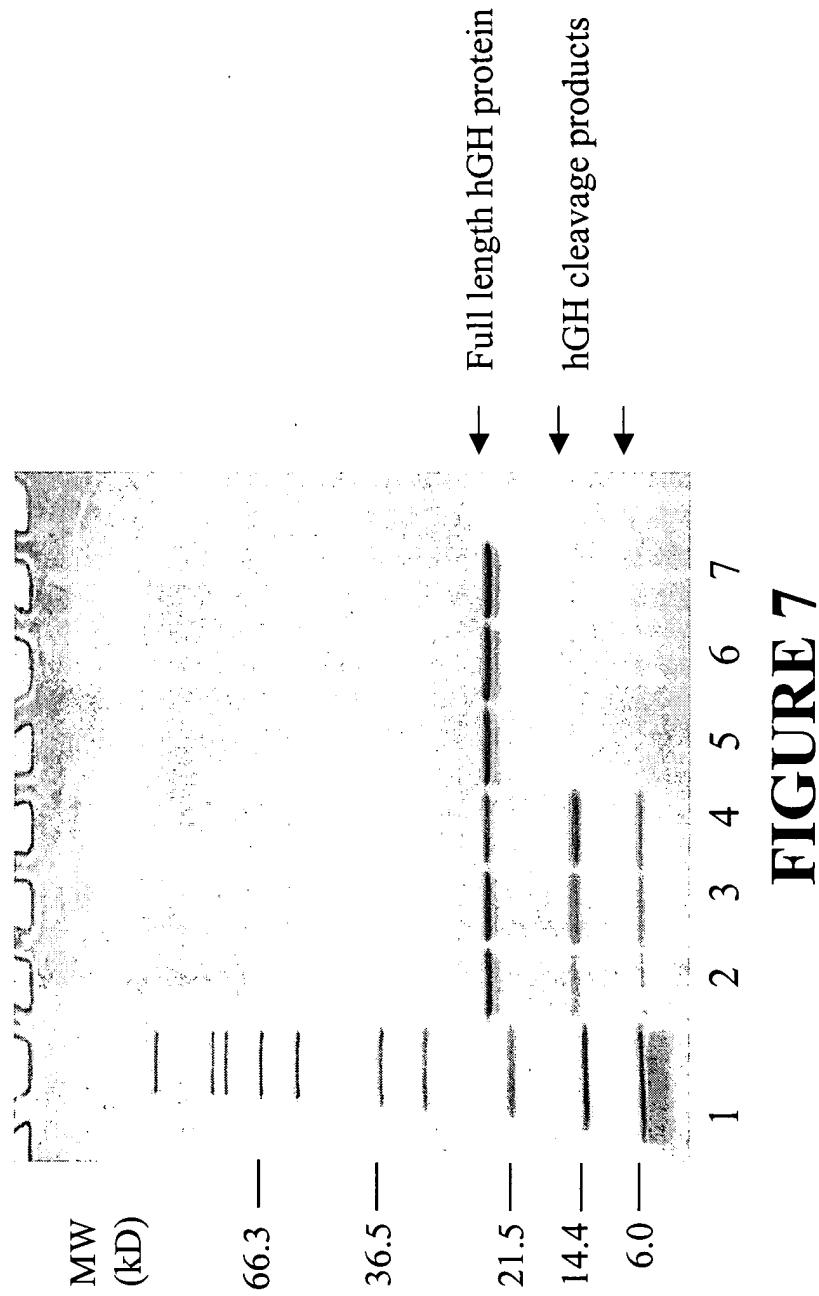


FIGURE 7

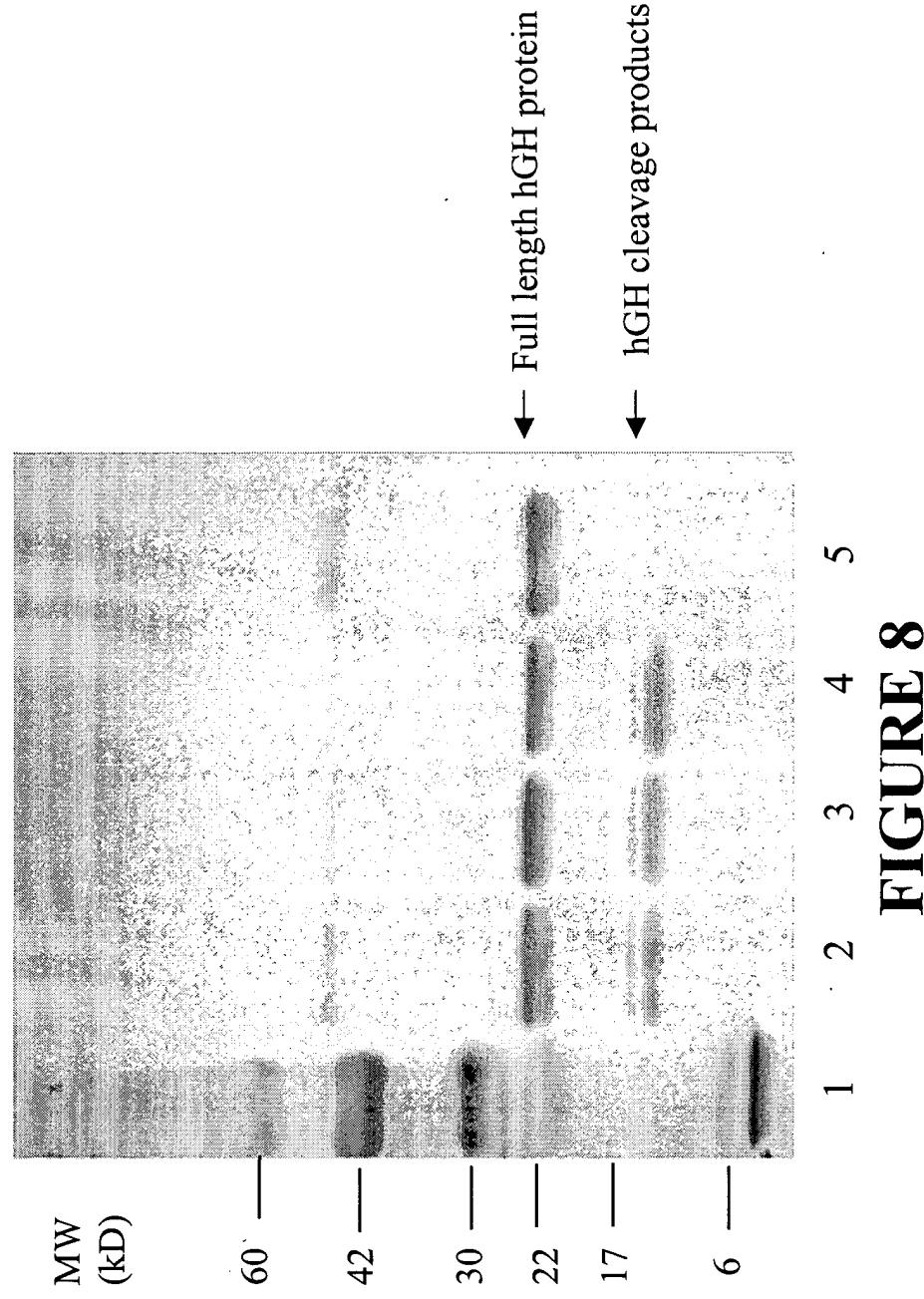
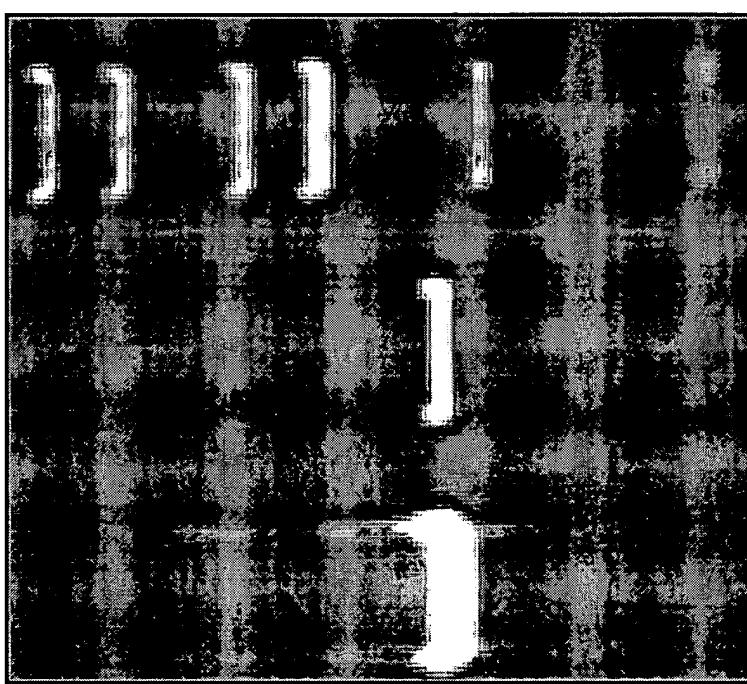


FIGURE 8



Nb At MW markers (kb)

FIGURE 9



Figure 10

*		
Seq ID 24	GVIIGVIDTGIFPDHPSFSDVGMSPPPAKWKGFCESNFTTKCNNKIIGLR	50
Seq ID 25	GVIIGVIDTGIVPDHPSFSDVGMPPPPAKWKGFCESNFTTKRNNKLIIGA	50
p69A (tomato)	GVIIGVIDTGILPDHPSFSDVGMPPPPAKWKGVCESNFTNCKNNKLIIGA	50
Consensus	gviigvi d tg i pdhpsfsdvgm pppakwkg cesnft k nnk ig r	
*		
Seq ID 24	SFRLSEDTPIDTDGHGTHTASTAAGAFVKGANFFGNANGTAVGVAPLAHM	100
Seq ID 25	SFPdLdng.PIDENGHGHTHTASTAAGAFVKGANvFGNANGTAVGVAPLAHi	99
p69A (tomato)	SyqLghgsPIDdDGHGTHTASTAAGAFVnGANvFGNANGTaaGVAPfAHi	100
Consensus	s l pid ghgthtastaagafv gan fgnangta gvap ah	
*		
Seq ID 24	AIYKVC.SFATCSETDALAAMDAIIDDGVDIISASLGGFTNAPLHDDPIS	149
Seq ID 25	AIYKVCgSdgvCSdveiLpAMDvAIDDGVDILSISLGGtsN.PfHnDkIa	148
p69A (tomato)	AvYKVCnSd.gCadTDvLAAMDAIIDDGVDILSISLGGggssdfysnPIa	149
Consensus	a ykvc s c l amd aiddgvdi s slgg i	
*		
Seq ID 24	LGAYSATEKGILASASAGNSE.FDNPVANNAPWILTVGASTHDRKLKATV	198
Seq ID 25	LGAYSATERGILvScSAGNSgpFqrtVnNdAPWILTVGASTHDRKLKATV	198
p69A (tomato)	LGAYSATERGILvScSAGNngpstgsVgNeAPWILTVGASTqDRKLKATV	199
Consensus	lgaysate gil s sagn v n apwiltvgast drklkatv	
*		
Seq ID 24	KLGNKEEFEGESADQPKTSNSTFIALFDAGKNASD....QDAPFCRSWAM	244
Seq ID 25	KLGNKEEFEGESAYhPKTSsSTFftLFDveK...DgtratrAPFCipgsI	245
p69A (tomato)	KLGNrEEFEGESAYrPKiSNSTFfALFDAGKNASD...efetPyCRSgsI	246
Consensus	klgn eefegesa pk s stf lfd k d p c	
*		
Seq ID 24	TDPAIKGKIVLCQKDPSSLTSSQGRNVKDAGGVGMILINNPEDGVTKSAT	294
Seq ID 25	TDPsIrGKIVvClvgggvrTvdkGqvVKDAGGVGMILINNPEDGVTKSAe	295
p69A (tomato)	TDPvIrGKIViClaggvprvdkGqaVKDAGGVGMIIINqqrsGVTKSAd	296
Consensus	tdp i gkiv c g vkdaggvgmi in gvtksa	
*		
Seq ID 24	AHVLPALDVSHEEGEKIKAYINSTSNPIAAITFQGTIVGDKNAPIVASFS	344
Seq ID 25	AHVLPALDVSdadGkK1AYINSTSNPvAAITFhGTv1GDKNAPIVASFS	345
p69A (tomato)	AHViPALDiSdadGtK1AYmNSTSNPvAtITFQGTiIGDKNAPIVAafs	346
Consensus	ahv pald s g ki ay <u>nstsnp</u> a itf gt gdknapiva fs	
*		
Seq ID 24	ARGPSRANPGILKPDIIIGPGVNILAAWPTTVNIPNKNTNSGFNIISGTSM	394
Seq ID 25	SRGPSeAsrGILKPDIIIGPGVNvLAAWPTsVdn.NKNTkStFNIISGTSM	394
p69A (tomato)	SRGPSgAsiGILKPDIIIGPGVNILAAWPTsVdd.NKNTkStFNIISGTSM	395
Consensus	rgps a gilkpdiigpgvn laawpt v nknt s fniiisgtsm	
*		
Seq ID 24	SCPH	398
Seq ID 25	SCPH	395
p69A (tomato)	SCPH	399
Consensus	scph	



Figure 11A

Seq_ID_40	.....				0
Seq_ID_39	.....				0
Seq_ID_25	.....				0
P69D	.....mgflkillififcsflrpsiqsdsletyivhvespenqistqssltdlesyy				51
P69A	.....mgflkillvfifcsfpwptiqsnletylvhvespeslistqssltdldsy				51
P69C	.....mgffkilfvififcsfpwptiqsnletyivhvespeslittqssltdldsy				51
P69B	.....mglkillvfifcsfqwptiqsnletyivhvespeslvtqssltdlgsyy				51
Seq_ID_24	.....				0
CUSSP	.....mssslifk1ffffslffsnrlasrlsdddgkniyivymgrkledpd				46
Seq_ID_19	.....				0
Seq_ID_18	.....ancitmyfllitilltlnpltmaesetyiinhmdlsampkafsshqnwyltl				53
Seq_ID_20	.....				0
SBT4	.....mgsrnwfpypspylvlfsualahlylaiaqrstyivhldkslmpnvftdhhhwhssti				59
SBT3	.....mell.hlllfswalsahlfalalqrstyivhldkslmpnvftdhhhwhssti				51
AG12	.....mklyngiclpylflfasciclaalhasstsmekstyivhmdkshmpkaftshhnwyssiv				59
AIR3	.....mklthnfsfl11111vhmsskhilaskdsssyvvyfgahshvgeitedamdr				52
Seq_ID_21	.....vfpffffiiisfc1tpvtisvqsdghetfiihvsksdkprvftthhwysii				52
Seq_ID_22	.....ptrpvfpffffiiisfc1tpvtisvqsdghetfiihvsksdkprvftthhwysii				56
Seq_ID_23	.....lssssssfslllfffflns1visvqlgkhtfivhvsksdkprvftthhwysii				55
MDC16.21	.....maklsllssiffvfplllcff.sp.sss.ssdglesiivhvqrshkpslfsshhnnwhvsl				57
Seq_ID_27	.....marpgg.mvlstlflml.f...hvfvhagqnqkkyiymdksnipadffddhtlwydssl				55
SBT1	.....merlrl.mflilmvvl.f...hfvvdarqnqkkyiimdkfnmpadffddhtqwydssl				55
ARA12	.....msssfslsstafflllc1gfc..hvs.ssssdqg.tyivhmaksqmpssfdlhsnwydssl				56
Seq_ID_26	.....h.....				1
SBT2	.....magmllkcmffffvs vchainlakcsptkktyi1qmdkwakpdvfvdhvqwyssl				56
Seq_ID_28	.....				0
F22M8.3	.....mffrsfivffffliffasnvssrkqtyvihtvtstkh				38
Seq_ID_29	.....				0
Consensus		t i h		s	60
Seq_ID_40	.....				G. 1
Seq_ID_39	.....				G. 1
Seq_ID_25	.....				G. 1
P69D	lsflpktttaisssgdeeaas.miysyhnmkgfaarltaaqvkemekhhgfvsaqkqri				110
P69A	lsflpktttaisssgneeaaat.miysyhnmvtgfaarltaeqvkemekhhgfvsaqkqrt				110
P69C	lsflpkttttisssgneeaaat.miysyhnmvtgfaarltaeqvkemekhhgfvsaqkqri				110
P69B	lsflpkttattisssgneeaaat.miysyhnmvtgfaarltaeqvkemekhhgfvsaqkqri				110
Seq_ID_24	.....				0
CUSSP	sahhhramleqvvgstfapesvlhtykrssfngfavlteeaaekiasmegvvsvflnem				106
Seq_ID_19	.....				0
Seq_ID_18	asvsgssslgtesnrnsfsssk1lvaytnaihfsat1pselqviknspgylsstsdkdm				113
Seq_ID_20	.....tprptrxptrpptrplspseykaiknslgvssmedrt				38
SBT4	dsikasvps...svdrfhsapk1vlysydhnvhgfsav1skdelaakkspgfisaykdrt				116
SBT3	dsikasvps...svdrfhsapk1vlysydhnvhgfsav1skdelaakkspgfisaykdrt				108
AG12	dclnsekp.....ttssfvyytynhvhlgfsaslshqeldtlrespgfvsvsaydrn				109
AIR3	vkethydf1gsgtgsreratdaifysytkhingfaahldhdbladeiskhpevvsvfpnka				112
Seq_ID_21	rsvs.....qhpsskilytyeraavgfsarltaaqadqlrrigpgvisvlpdev				99
Seq_ID_22	rsvs.....qhpsskilytyeraavgfsarltaaqadqlrrigpgvisvlpdev				103
Seq_ID_23	rsvssss.....qhsakilysydaargfsarltsgqadrlrrmpgvgvsvvpdra				105
MDC16.21	rslpsssp.....q.patlllysrsavhgfssar1sp1qtaalrrhpsvisvpdqa				106
Seq_ID_27	ksvs.....kganmlytynnvihgystqltadeaksleqqpgilsvheevr				101
SBT1	ksvs.....ksanmlytynsvihgystqltadeakalaqqpgillvheevi				101
ARA12	rsis.....dsaellytyenaihgfstrltqeeads1mtqpgvisvlpehr				102
Seq_ID_26	.....				1
SBT2	ksvlpstte...vektgdgeerilysyqtafhgvaqlseeevkk1qerngvlavfpeik				113
Seq_ID_28	.....				0
F22M8.3	vtslfns1qteninddfslpeihiyenamsgfsat1tddqldtvkntkgfisaypdel				98
Seq_ID_29	.....				0
Consensus	s	y y	gf a l	g s	120



Figure 11B

Seq_ID_40	VIIGVIDTGVPDHP.SFSDVGMPPP	26
Seq_ID_39	VIIGVIDTGVPDHP.SFSDVGMPPP	26
Seq_ID_25	VIIGVIDTGVPDHP.SFSDVGMPPP	26
P69D	fslhthhttpsflglqqnmgl.....wkdsnfvvgVIIGVIDTGI1PDHP.SFSDVGMPPP	164	
P69A	lsldtthtssflglqqnmgv.....wkdsnygkgVIIGVIDTGI1PDHP.SFSDVGMPPP	164	
P69C	lslhtthhttpsflglqqnmgl.....wkdsnygkgVIIGVIDTGVPDHP.S1SDVGMPSP	164	
P69B	lslhtthhttpsflglqqnmgv.....wkdsnygkgVIIGVIDTGI1PDHP.SFSDVGMPPP	164	
Seq_ID_24	.....gVIIGVIDTGF1PDHP.SFSDVGMsPP	26
CUSSP	nelhttrswdflgfpltvpr.....r..sqvesnivvGV1DTGIwPesk.SFdDeGfsPP	158	
Seq_ID_19	.....v.....stqsaitagDdGisev	17
Seq_ID_18	vkidtthtsqflglnsdsga.....wpksdygkdVIvG1vDTGIwPesk.SynDnGMtev	167	
Seq_ID_20	vkihtthsshflglssmygs.....wpksnygkgVIIGVvDTGvwwPeik.SFdDdGMsqv	92	
SBT4	vepdtttytfgyklknpsygl.....wpasglggdmiIGV1DsGIwPesafqD.GiPei	170	
SBT3	vephthtsdf1klknpssgl.....wpasglggdVIvA1v1DsGIwPesafqD.GMPei	162	
AG12	atldtthtprrflslnpttggl.....wpasnygedVIIGVIDsGvwwPesafsfkdDgmaqv	164	
AIR3	lklhttrswdflglehnsyvpsssiwrkarfgedtIIan1DTGvwwPesk.SFrDeGlgPi	171	
Seq_ID_21	rlhhtthptf1gl.....dsf...glwpnsdyaddVIvG1DTGIwPerP.SFSDeG1stv	153	
Seq_ID_22	rlhhtthptf1gl.....dsf...glwpnsdyaddVIvG1DTGIwPerP.SFSDeG1stv	157	
Seq_ID_23	rqlhtthptf1gl.....dsf...glwpnsdyaddVIvG1DTGIwPerP.SFSDgGlsav	159	
MDC16.21	reihtthtpaf1glf..qns...glwsnsnygedVIvG1DTGIwPeHP.SFSDsGlgPi	160	
Seq_ID_27	yelhtrsp1glglegresk...sfflqaetrseVIIGV1DTGvwwPesk.SFdDtGlgPv	157	
SBT1	yelhtrsp1glglegresr...sffpqtearaseVIIGV1DTGvwwPesk.SFdDtGlgqv	157	
ARA12	yelhtrr1plf1gl.....d1fpeagsysdVvVGV1DTGvwwPesk.SySDeGfgPi	157	
Seq_ID_26	.....	1
SBT2	yqlhttrsp1flgl.....k1wadrlsdhnVIvG1DTGIwPesk.SFnDsGMtsv	169	
Seq_ID_28	.....	0
F22M8.3	lslhttyshef1glf1gig.....lwnets1ssdVIIG1vDTGIwPesk.vSFrDthMtPv	152	
Seq_ID_29	.....	0
Consensus	lhTt flgl w s viigv Dtg1wpe p sf d g	180	
Seq_ID_40	PAWKGF CES...NFTTKCNNKLIGARSFPLDNG.....	PIDENGHGTH	67
Seq_ID_39	PAWKGF CES...NFTTKCNNKLIGARSFPLDNG.....	PIDENGHGTH	67
Seq_ID_25	PAWKGF CES...NFTTKCNNKLIGARSFPLDNG.....	PIDENGHGTH	67
P69D	PAWKGV CES...NFTTKCNNKLIGARSyqLgNGs.....	PIDdNGHGTH	206
P69A	PAWKGV CES...NFTnKCNNKLIGARSyqLghGs.....	PIDddGHGTH	206
P69C	PAWKGV CES...NFTnKCNNKLIGARSyqLaNGs.....	PIDddGHGTH	206
P69B	PAWKGV CES...NFTnKCNNKLIGARSyqLgNGs.....	PIDsiGHGTH	206
Seq_ID_24	PAWKGF CES...NFTTKCNNK1I1RSFrLsdt.....	PIDtdGHGTH	68
CUSSP	PpWKGtCET...snnfrCnRKi1GARsyhigrpispq.....dvngPrDtNGHGTH	207	
Seq_ID_19	PsrWKGe CESgtfnsslCNkKLIGARyFnkg1lannpn.....lnismnssrDtdGHGTH	73	
Seq_ID_18	PsrWKGe CESgtfnsslCNkKLIGARyFnkg1lannpn.....itismnsarDtdGHGTH	223	
Seq_ID_20	PsrWKGiCqtgtqfnsslCNkKLIGARyFnkg11skvkn.....ltiminsarDteGHGTH	148	
SBT4	PkrWKGiCnpgtqfnTsmCNrKLIGAnyFnkg1laedpn.....lnismnsarDtnHGTH	226	
SBT3	PkrWKGiCkpgtqfnasmCNrKLIGAnyFnkg1landpt.....vnitmnsarDtdGHGTH	218	
AG12	PArWKGiCsr.egfnssmCNsKLIGARyFnngima1p1n.....atfsmnsarD1tGHGTH	219	
AIR3	PsWKGiCqn.qkdaTfhCNrKLIGARyFnkg1yaaavgh.....lnssfdsPrD1dGHGhsH	226	
Seq_ID_21	PssWKGkCvtgpdfpeTsCNkKi1GAR1Fykgyeadr.g.spideskesksPrDteGHGTH	211	
Seq_ID_22	PssWKGkCvtgpdfpeTsCNkKi1GAR1Fykgyeakh.g.pmdeskesksPrDteGHGTH	215	
Seq_ID_23	PsgWKGkCETgldfpatsCNrKi1GAR1Fykgyeadr.g.spideskesksPrDteGHGTH	218	
MDC16.21	PstWKGe C1gpdfpassCNrKLIGARaFyrgyltqrngt1khaakesrsPrDteGHGTH	220	
Seq_ID_27	PmsWKGeCq1gk1nfkassCNrKLIGARfFsqqyeaafga..idettesksPrDddGHGTH	215	
SBT1	PAswKGkCqtgk1nf1dassCNrKLIGARfFsqqyeaafga..idettesksPrDdeGHGTH	215	
ARA12	PssWKGgCEagtnftas1CNrKLIGARfFargyestmgp..ideskesrsPrDddGHGTH	215	
Seq_ID_26	.....	1
SBT2	PshWKGvCETgrgfehhCskK1vGARvFfryyeasgk..inergefksarDqDGHGTH	227	
Seq_ID_28	.....	0
F22M8.3	PsrWrGscdegtnfssseCNkKi1GAsaFykg1yesivgkin..ettdfrstrDaqGHGTH	210	
Seq_ID_29	.....	0
Consensus	p wkg ce g f cn k1igar f g sprd gHgth	240	



Figure 11C

Seq_ID_40	TASTAAGAFVKGANVFGNANGTAVGVAPLAYIAIYKVCBSDGV...	CSDVEILAAMDVAI	124	
Seq_ID_39	TASTAAGAFVKGANVFGNANGTAVGVAPLAYIAIYKVCBSDGV...	CSDVEILAAMDVAI	124	
Seq_ID_25	TASTAAGAFVKGANVFGNANGTAVGVAPLAhIAIYKVCBSDGV...	CSDVEILpAMDVAI	124	
P69D	TAGTAAGAFVKGvNiFGNANGTAVGVAPLAhIAIYKVCsSDG...	CSDsDILAAMDaAI	263	
P69A	TASTAAGAFVnGANVFGNANGTAAGVAPfAhIAvYKVCnSDG...	CaDtdvLAAMDaAI	262	
P69C	TASTAAGAFVnGANVFGNANGTAVGVAPLAhIAIYKVCsSDG...	CSDsDILAAMDaAI	262	
P69B	TASTAAGAFVKGANVyGNAdGTAVGVAPLAhIAIYKVCnSvG...	CSesdvLAAMDsAI	262	
Seq_ID_24	TASTAAGAFVKGANfFGNANGTAVGVAPLAhIAIYKVCsfat...	CSetdaLAAMDaAI	124	
CUSSP	TASTAAGglVsQAnIyG1glGTArGgvPLArIAaYKVCnDG...	CSDtdILAAYDdAI	263	
Seq_ID_19	TsSTAAGsVVeGAsyFGyAtGTAiGiApkAhvAmYKalwe.eg...	vylsdvLAAiDqAI	129	
Seq_ID_18	TsSTAAGshVesAsyFGyArGsAtGmApkAhvAmYKalwe.eg...	tmlsdIILAiDqAI	279	
Seq_ID_20	TsSTAAGs1VKGAsyFGyApGfAiGVAPmAhvAvYKalwdgag...	t.isdILA1DqAI	204	
SBT4	sAsIAAGnFaKGvshFGyAqGTAvgVAPqArIAvYKfsfr.eg...	sltsdliAAMDqAv	282	
SBT3	cAsitAGnFaKGvshFGyApGTAvgVAPrArIAvYKfsfn.eg...	tftsdliAAMDqAv	274	
AG12	TASTAAGnyVnGAsyFGygkGTArGiApRArvAvYKvtwp.eg...	rytdvLAGiDqAI	275	
AIR3	T1STAAGdFVpGvsiFGqgNGTAkGgsPrArvAaYKVCppvkgn...	CyDadvLAAfDaAI	286	
Seq_ID_21	TASTAAGs1VanAsfyqyAkGeArGmAikArIAaYKiCwknG...	CfnsdILAAMDqAv	267	
Seq_ID_22	TASTAAGs1VanAsfyqyAk...	GmAikArIAaYKiCwknG...	CfnsdILAAMDqAv	267
Seq_ID_23	TASTAAGsvVanAsfFqyAkGeArGmAkvArIAaYKiCwktG...	CfDsdILAAMDqAv	274	
MDC16.21	TASTAAGsvVanAslyqyArGTAgMAskArIAaYKiCwtgG...	CyDsdILAAMDqAv	276	
Seq_ID_27	TAtTAAGsvVtGAs1lFGyAaGTAgMashArvAaYKVCwagG...	CfssdILAqMDqAv	271	
SBT1	TAtTAAGsvVtGAs1lGyAtGTAgMashArvAaYKVCwtgG...	CfssdILAqMDqAv	271	
ARA12	TsSTAAGsvVeGAs1lGyAsGTAgMApRArvAvYKVCwlgG...	CfssdILAiDkAI	271	
Seq_ID_26	.....	.....	1
SBT2	TAGTvAGsvVrGAN11GyAyGTAgMApGArvAaYKVCwvgG...	CfssdILsAvDqAv	283	
Seq_ID_28	.....	.....	0
F22M8.3	TASTAAGdiVpkANyFGqAkG1AsGmrftsriAaYKaCwalG...	CastdviAAiDrAI	266	
Seq_ID_29	.....	.....	0
Consensus	tastaag v gas fgya gta g ap aria ykvcw g c sdilaam	da	300	
Seq_ID_40	DDGVDILSISLGG.TS.NPFHNDKIALGAYSATERGILVSCSAGNSGPQORTVDNDAPWI	182		
Seq_ID_39	DDGVDILSISLGG.TS.NPFHNDKIALGAYSATERGILVSCSAGNSGPQORTVDNDAPWI	182		
Seq_ID_25	DDGVDILSISLGG.TS.NPFHNDKIALGAYSATERGILVSCSAGNSGPQORTVDNDAPWI	182		
P69D	DDGVDILSISLGG.st.kPFHdDgIALGtYSATERGIfVsASAGNSGPslgTVaNeAPWI	321		
P69A	DDGVDILSISLGG.ggssdFysnpIALGAYSATERGILVSCSAGNnGPstgsVgNeAPWI	321		
P69C	DDGVDILSISLGG.sp.iPlyeDsIAmGAYSATERGILVSCSAGNdGhsmgsVDNsAPWI	320		
P69B	DDGVDILSmSLSG.gp.iPFHrDnIAiGAYSATERGILVSCSAGNSGPsfiTavNtAPWI	320		
Seq_ID_24	DDGVDIiSaSLGG.ftnaPlHdDpIsLGAYSATEkGILaSaSAGNS.eFdnpVaNnAPWI	182		
CUSSP	aDGVDIiS1SvGG.anprhyfvDaIAiGsfhAvERGILtSnSAGNgGPnnfTtaslsPw1	322		
Seq_ID_19	tDGVDvLs1SLG..idaiPlHeDpvAiaAfaAlEkGIfVStSAGNeGPyyeTlhNgtPWv	187		
Seq_ID_18	eDGVDIiS1SLG..iddlalyeDpvAiatfaAmEkdIfVStSAGNeGPddqalhNgtPWv	337		
Seq_ID_20	aDGcDILS1SfGa.vSpfPlyiDpIsiasfSAmEkGIfVsvSAGNeGPFdqslsNeAPwf	263		
SBT4	aDGVDmisiSfs..nrfiPlyeDaIsiasfgAmmkGvLVsaSAGNrGhswgTVgNgsPWI	340		
SBT3	aDGVDmisiSyG..yrfiPlyeDaIsiasfgAmmkGvLVsaSAGNrGPgigslnNgsPWI	332		
AG12	aDGVDviSiSLG..ydgvPlyeDpIAiasfaAmEkGvvVStSAGNaGPFFgnmhNgiPWv	333		
AIR3	hDGaDviSvSLGG.ep.tsFfNDsvAiGsfhAakkrIvVvCSAGNSGPadsTVsNvAPWq	344		
Seq_ID_21	DDGVhviS1SvGangyaphylyDsIAiGAfGAsEhGvLVSCSAGNSGPgayTavNiAPWm	327		
Seq_ID_22	DDGVhviS1SvGangyaphylyDsIAiGAfGAsEhGvLVSCSAGNSGPgayTavNiAPWm	327		
Seq_ID_23	aDGvhviS1SvGadgyapeydaDsIAiGAfGAsEhGvvVSCSAGNSGPgasTavNvAPWI	334		
MDC16.21	aDGvhviS1SvGasgSapeyHtDsIAiGAfGAtRhGIvVSCSAGNSGPnpeTatNiAPWI	336		
Seq_ID_27	iDGvnvLs1SLG..gtisdyyrDivAiGgfSAasqGIfVSCSAGNgGPgsgsIlsNaAPWI	329		
SBT1	iDGvnvLs1SLG..gtisdyrDivAiGAfSAasqGIfVSCSAGNgGPssgTlsNvAPWI	329		
ARA12	aDnvnLsMslSLG..ggmsdyrrDgvAiGAfaAmERGILVSCSAGNaGPssssIlsNvAPWI	329		
Seq_ID_26	.....	.....	1
SBT2	aDGvnILSISLGG..ggvssynrDs1siaAfgAmEkGvfVSCSAGNgGPdpisltNvAPWI	341		
Seq_ID_28	.....	.....	0
F22M8.3	1DGVDviSiSLGG..SsrPFyvDpIAiagfgAmqknIfVSCSAGNSGPtasTVsNgAPWI	324		
Seq_ID_29	.....	.....	0
Consensus	dgvd s slg d iaigaf a e gi vscsagn gp t n apwi	360		



Figure 11D

Seq_ID_40	LTVGASTHDRKLKATVKLGNKEEFEGE...	SAYHPKTSNSTFFTLFDVEKIVHEQPVAPF	239
Seq_ID_39	LTVGASTHDRKLKATVKLGNKEEFEGE...	SAYHPKTSNSTFFTLFDVEKIVHEQPVAPF	239
Seq_ID_25	LTVGASTHDRKLKATVKLGNKEEFEGE...	SAYHPKTSNSTFFTLFDVEKdgtratrAPF	239
P69D	LTVGASTHDRKLKtvKLGNsEEFEGE...	SAYHPKTSNSTFFPlyDagKnesdQfsAPF	378
P69A	LTVGASTqDRKLKATVKLGNrEEFEGE...	SAYrPKiSNSTFFFaLFdagKnasdefetPy	378
P69C	LTVGAST1DRKiKATVKLGNrEEFqGE...	SAYrPqiSNSTFFTLFDaaKnasdefktPy	377
P69B	LTVGAST1DRKiKATVKLGNgEEFEGE...	SAYrPKiSNaTFFTLFDaaKnakdpsetPy	377
Seq_ID_24	LTVGASTHDRKLKATVKLGNKEEFEGE...	SAdqPKTSNSTFiaLFdagKnasdQ.dAPF	238
CUSSP	LsVaASTmDRKfvTqVqiGNqgsFqGv...	Sintfdnqyyplvsgrdipntgfdkstsrf	379
Seq_ID_19	LTVaAgTvdRefiGt1tLGNgvsvpG1...	SlypgnssSsSesslvyye.cgddke.....	238
Seq_ID_18	LTVaAgTvdRefiGt1sLGNgvsvtG1...	SlypgnssSsSessivFlktcleke.....	389
Seq_ID_20	LsVaASTvDRdviriltLGNgvsvtG1...	Slypgnsts.tdisivilvkncldkqe.....	314
SBT4	LcVaAgftDRttagT1tLGNg1kirGw...	SlfparafvrdFpviyntklsdcssdalls	397
SBT3	LcVasghtDRttagT1tLGNg1kirGw...	Slfparafvrdspvviyntklsdcssseells	389
AG12	LTVaAgniDRsfragT1tLGNdqtitGw...	tmfpasaiessqlvynktisacnstell	390
AIR3	iTVGASTmDRefasnlvLGNgkhykGqslsStalPhakfypimasvnaknasaldAql	404	
Seq_ID_21	LTVGASTiDRefpAdViLGdnriFgGvslsSg..npltdaklpvvysgdcg.....sky	379	
Seq_ID_22	LTVGASTiDRefpAdViLGdnriFgGvslsSg..npltdaklpvvysgdcg.....sky	379	
Seq_ID_23	LTVaASTiDRefpAdViLGdgriFgGvslsSg..dplgdSk1plvvysgdcg.....sql	386	
MDC16.21	LTVGASTvDRefAAnaitGdgkvFtGtslyag..eslpdSqlsvyysgdcg.....srl	388	
Seq_ID_27	tTVGAgTmDRefpAyisLGNgkkFsGvslsSg..kalpsSvmplyvagnasqasn..gnl	385	
SBT1	tTVGAgTmDRefpAyigiGNgklnGvslsSg..kalpsSvmplyvagnvsqssn..gnl	385	
ARA12	tTVGAgT1DRdfpAlaiLGNgknFtGvslfk..ealpdklpfiyagnasnatt..gnl	385	
Seq_ID_26	.....	1
SBT2	tTVGASTmDRdfpATVeLGtgkivtGaslykgrmn1stqkqypliylgssnsslssl	400	
Seq_ID_28	.....	0
F22M8.3	mTVaASytDRtfpAiVriGNrkslvGsslykgk.....SlknplafnrtagEesgAvF	378	
Seq_ID_29	.....	0
Consensus	ltvgast dr f atv lgng f g s s	420	
Seq_ID_40	CIPGSLTDP.....	248	
Seq_ID_39	CIPGSLTDP.....	248	
Seq_ID_25	CIPGSLTDPsirgkivvclvgggvrtvdkgqvkdaggvgmilinnpedgvtsaeahvl	299	
P69D	CsPGSLnDPAikgkivlclrsis1lrvraqgqsvkdaggvgmilineqkrgvtsaeahvl	438	
P69A	CrsGSLTDPvirgkivclaggvgprvdkgqavkdaggvgmiiinqrsqvtkssadahvl	438	
P69C	CrPGSLTDPairgkivlclafggvtivdkgqavkdaggvgmiiinspddgvtksadahvl	437	
P69B	CrrGSLTDPairgkivlcsalghvanvdkgqavkdaggvgmiiinpsqygvtkssadahvl	437	
Seq_ID_24	CrsSwamTDPaikgkivlcpkdssttssqgrnvkdaggvgmilinnpedgvtsatahvl	298	
CUSSP	CtdkSvnpnllkgkivvceasfgpheffksldg..aagvlmtsn.....trdyadsypl	431	
Seq_ID_19	lqnkahkfvvcldknd....svgehvynvrnskvagavfitn...t.tdl.efylqsef	288	
Seq_ID_18	leknahkfvacydtng....svsdqlynvknktvaggifitn...y.tdl.efylqsef	439	
Seq_ID_20	lqnvtdkfvvcidkna....lvkqkvesvrhsnaagavfitnd..fvtdlge.ylktef	366	
SBT4	qfPdpqntiiicdynkledgfgfdsqifhvtqarfkagifise....dpavfrvasft.h	452	
SBT3	qvenpentivicddn..gd.fs.d.qmriitralkaaifise....dpvgfrsatfp.n	439	
AG12	davyS...vvceait....piyaqidairtrsnvagailisn...htklfelgggvsc	438	
AIR3	CklGSLdptkkgkivlvcdr.ggngrvekgravalggggmvlenyvtgndl1adphvl	463	
Seq_ID_21	CyPGkLdpkvvagkivlcdr.ggnarvekgsavkqagggvgmilanladsgelvadsh1	438	
Seq_ID_22	CyPGkLdpkvvagkivlcdr.ggnarvekgsavkqagggvgmilanladsgelvadsh1	438	
Seq_ID_23	CyPGmLdpskvagkivlcdr.ggnarvekgsavkqagggvgmilanladsgelvadsh1	445	
MDC16.21	CyPGkLnsslvegkivlcdr.ggnarvekgsavkqagggvgmilantaesgeeltadsh1	447	
Seq_ID_27	CtsGSLipekvdgkivvcdr.gmnaraqkg1vvkdaggigmilantdsygdelvadahli	444	
SBT1	CtsGSLipekvgkivvcdr.gmnaraqkg1vvkdaggigmilantdtygdelvadahli	444	
ARA12	CmtGtLipekvgkivmcdr.ginarvqkgdvvkaaggvgmilantaangeelvadahli	444	
Seq_ID_26	.....	1
SBT2	CldGtLdkasvagkivicdr.gisprvqkgqvveaggvgmiltntaangeelvadsh1	459	
Seq_ID_28	.....driekgqavknagggvgmilinrlqdgstksadahvl	36
F22M8.3	CirDSLkrelvegkivicdr.gasgrtakgeevkrsggaamllvsteaegeelladphvl	437	
Seq_ID_29	.....	0
Consensus	c g l gkiv c g v kg vk agggvgmil n g ad h 1	480	

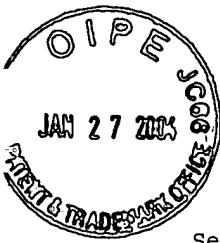


Figure 11E

Seq_ID_40	.....S.....	249
Seq_ID_39	.....S.....	249
Seq_ID_25	paldvsdadgkkilayi.nstsnpvaaitfhgtvlgd.knapivasfssrgpseasrgil	357
P69D	paldvsnadgkkilaym.nsssnpvasitfhgtvlgd.knapivasfssrgpsvaspgil	496
P69A	paldisdadgtkilaym.nstsnpvatitfqgtiigd.knapivaafssrgpssgasigil	496
P69C	paldvsdadgtkilaym.nstsnpvatiafqgtiigd.knapmvaafssrgpsraspgil	495
P69B	palvvsaadgtkilaym.nstsspvatiafqgtiigd.knapmvaafssrgpsraspgil	495
Seq_ID_24	paldvsheegekikayi.nstsnpiaaitfqgtvlgd.knapivasfsargpsranpgil	356
CUSSP	pssvldpndllatlryi.yisirspgatifiksttiln..asapvvvfssrgpnratkdv	488
Seq_ID_19	.....	288
Seq_ID_18	pavflnfedgdkvleyi.knshspkarlefqvthlga.kpapkvasyssrgpsescpf	497
Seq_ID_20	psvflnfqngdqvlkyv.nstsspkakiglqgtligv.erapavahfssrgpsmtcp	424
SBT4	lgvvidkkegkqvinyv.knsvptatitfqetyvdrerpspfllygssrgpsrsyagia	511
SBT3	pgvvvnkkegkqvinyv.knsvptatitfqetyld.kpapvvaassargpsrsylgis	497
AG12	pclvispkdaaalikya.ktdefplaglkfqetitgt.kpapavayyssrgpspsypg	496
AIR3	patqltskdsfavrsyri.sqtkkpiahitpsrt dlg.lkpapvmasfsskgpsivapqil	521
Seq_ID_21	patmvgqkagdkirhyv.tsdpsptativfrgtvigmkspaaprvaafssrgpnhltpeil	497
Seq_ID_22	patmvgqkagdkirhyv.tsdpsptativfrgtvigmkspaaprvaafssrgpnhltpeil	497
Seq_ID_23	patmvgqkagdeirdyv.ksdsspkativfkgtvigmkspsapriaafsgrgpnyvtpeil	504
MDC16.21	patmvgakagdqirdyiktsd.sptakisflgtligpsspsprvaafssrgpnhltpeil	506
Seq_ID_27	ptgavgqtagxlixryi.asdsnpittiaffggtklgvqp.spvvaafssrgpnpitpeil	502
SBT1	ptaavgqtagnlikqyi.asnsnptatiaffggtklgvqp.spvvaafssrgpnpitpdv	502
ARA12	pattvgekagdiirhyv.ttdpnptasisilgtvvvgvkp.spvvaafssrgpnsitpn	502
Seq_ID_26	.....	1
SBT2	pavavgeregraiklya..agrsatatrflgtklgirp.spvvaafssrgpnflsleil	516
Seq_ID_28	paldvsffdgfqiteym.kstknvaritfqgtiigd.knapvlagfssrgpstaasp	94
F22M8.3	pavslgfdsdgktllnylag.aanatasvrfrgtayg..atapmvaafssrgpsvagpeia	494
Seq_ID_29	.....	0
Consensus	pa v g i y s p a i f g t g ap va fssrgps p il	540
Seq_ID_40	.....	249
Seq_ID_39	.....	249
Seq_ID_25	kpdiiagpgvnvlaawpts v d.....nnkntkstfn iisgtsmsc p.....	397
P69D	kpdiiagpgvnvlaawpts v d.....nnkntkstfn iisgtsmscph lsgvaallksahpd	551
P69A	kpdiiagpgvnilaawpts v d.....dnkntkstfn iisgtsmscph lsgvrallksthd	551
P69C	kpdiiagpgvnilaawpts v d.....dnkdtkstfn iisgtsmscph lsgvaallksthd	550
P69B	kpdiiagpganilaawpts v d.....dnkntkstfn iisgtsmscph lsgvaallkcthd	550
Seq_ID_24	kpdiiagpgvnilaawpttvni...pnkntnsgfniisgtsmscph.....	398
CUSSP	kpdispgpveilaawpsvapv...ggirrrntlfniisgtsmscphitgiatyvktynpt	544
Seq_ID_19	.....	288
Seq_ID_18	kpdilmapgalilaswpqkspatqi.rsgelfsnfniisgtsmscph aagvaallkgahpk	556
Seq_ID_20	kpdilmapghilaswsp lssvspy..t.elhnifniisgtsmscph aagvaalvkgthpe	481
SBT4	kpdilmapgalilaavppnipsvsi.enlqlttdyelks tsmaaphaagiaamlkgahpd	570
SBT3	kpdilapgv lilaayppn v fat sigtnillstdyiles gts smaaphaagiaamlkaahpe	557
AG12	kpdvmapgslvlaswipneataqigtnvylsshynmvsgtsmacph asgvaallkaahpe	556
AIR3	kpditapgvsviaaytgavsp tneqfdprr.llfnaisgtsmscph isgiaglktryps	580
Seq_ID_21	kpdviapgvnilagwtgsvgptdl.didtrrvefniisgtsmscph vggla allrrahpk	556
Seq_ID_22	kpdviapgvnilagwtgsvgptdl.didtrrvefniisgtsmscph vggla allrrahpk	556
Seq_ID_23	kpdvtapgvnilagwtgsigptdl.eidtrrvefniisgtsmscph vsgla allrrkaypk	563
MDC16.21	kpdviapgvnilagwtgmvgptdl.didprrvqfniisgtsmscph vsgla allrrkahpd	565
Seq_ID_27	kpdliapgvnilagwtgkv gptgl.pedtrnvgfniisgtsmsc xh vsgla axlxaahpe	561
SBT1	kpdliapgvnilagwtgkv gptgl.qedtrnvgfniisgtsmscph vsgla allkaahpe	561
ARA12	kpdliapgvnilaawtgaagptgl.asdsrrvefniisgtsmscph vsgla allksvhpe	561
Seq_ID_26	.....	1
SBT2	kpdmvapgvnilagwtgalgpssl.pidqr rntfn ilsgt s mscph vsgia allkarhpd	575
Seq_ID_28	kpdiiagpgvnvlaawptsvenktn....tkstfn iisgtsmscph lsgvaallksahpt	149
F22M8.3	kpdiaapglnilagwspfssp.s11rsdprrvqfniisgtsmacph isgiaaliksvhg	553
Seq_ID_29	.....	0
Consensus	kpd apgvnila w v fniisgtsmscph sg a allk hp	600

Figure 11F

Seq_ID_40	.....	249
Seq_ID_39	.....	249
Seq_ID_25	.....	397
P69D	wspaaiksammttadtvnlanspilde.r...lisadlfamgaghvnpssrasdpglvydt	607
P69A	wspaaiksammttadtlnlanspilde.r...llpadiyaigaghvnpssrandpglvydt	607
P69C	wspaaiksaimittdatlnlanspilde.r...llpadifatgaghvnpssrandpglvydi	606
P69B	wspaviksammttadtlnlanspilde.r...llpadiyaigaghvnpssrandpglvydt	606
Seq_ID_24	.....	398
CUSSP	wspaaiksalmmtaspmn.....a.r...fnpqaefaygsghvnpplkavrpglvyda	592
Seq_ID_19	.....	289
Seq_ID_18	wspairsammttadtmnqmpirdi.gr.nnnaasplamgagrinpknaldp gliydi	614
Seq_ID_20	wspairsammttadvlndtqspiqdi.grpenaatplamgaghinpnkaidpglvydt	540
SBT4	wspairsammttanhlnsaqdpite....dddmvasplgigsgvhvdpnraldp gliyda	626
SBT3	wspairsammttadpldntrkpkds...dnnkaatpldmagaghvdpnraldp gliyda	614
AG12	wspairsammttanplndtlnpihen.g.kkfhlasplamgaghidpnraldp gliyda	614
AIR3	wspairsaimttatimddipgpiqna.tn...mkatpfsfgaghvqpnlavnpglvydl	636
Seq_ID_21	wtpaavksalmttaynlndnsgkvftdl.a..tgqestpvhgsgvhvdpnraldp gliydi	613
Seq_ID_22	wtpaavksalmttaynlndnsgkvftdl.a..tgqestpvhgsgvhvdpnraldp gliydi	613
Seq_ID_23	wttaaiksalmmtaynvndnsgktftdl.a..tgqesspvhgsgvhvdpnraldp gliydi	620
MDC16.21	wspaaiksalsalvttaydvensgepiedl.a..tgkssnsfihgaghvdpnkalnpglvydi	622
Seq_ID_27	wsxgvirsalmttgysthknxgmiedv.a..tgmsytpvdhgaghvnpaaamnpglxydl	618
SBT1	wspairsalmttsystykngktiedv.a..tgmsstpfydgaghvnpptaavspg lvydl	618
ARA12	wspairsalmttayktykdgkplldi.a..tgkpstpfdhgaghvpsattatnpglvydl	618
Seq_ID_26	.....asdgaghinprkavdp gliydi	23
SBT2	wspaaiksalmmttayvhdntykslkda.s..svtpstpydhgaghvnpkavdp gliydi	632
Seq_ID_28	wspaaiksaimttadtvnlannpilde.mlr...panifaigaghvnpssrandpglvydt	205
F22M8.3	wspamiksaimttaritdnrnnpigdrgaagaesaatafafgagnvdptravdp gliydt	613
Seq_ID_29	.....aitaghvnpesaidpglvydt	21
Consensus	wspaaia sa mtta pi d gaghv p a dp glvyd	660
Seq_ID_40	.....	249
Seq_ID_39	.....	249
Seq_ID_25	.....	397
P69D	pfedyipylcglnyt...nrevgkvlqrkvcnsevkripegqlnypsf sirlg.s....	658
P69A	pfedyvpylcglnyt...nrqvgnllqrkvcnsevksileaqlnypsf siydlgs....	659
P69C	pfedyipylcglnyt...nrqvgnllqrrvcnsevkiileaqlnypsf citelgs....	658
P69B	pfedyvpylcg1kyt...dqvgvnl1qrrvcnsevksileaqlnypsf sifglgs....	658
Seq_ID_24	.....	398
CUSSP	nesdyvkflcgqgyn...tqavrritg dysactsgntgrvwdlnypsf g lvsps....	644
Seq_ID_19	.....	289
Seq_ID_18	tsqdyin11caldf...sqqikaitrssayscsnss...1dlnypsf ifygfnynssesd	668
Seq_ID_20	tpqdyin11calnlt...seqikitrrss.ytcpnps...1dlnypsf iayfnvns seld	593
SBT4	tpqdyin11icslnft...eeqfktfarssanyhncsn.psadlnypsf iafysysqegny	682
SBT3	tpqdyvn11cslnft...eeqfktiarssas.hncsn.psadlnypsf iafysysqegny	667
AG12	tpqdyin11lcsmnyn...kaqilaivrdsy..tcsndpssdlnypsf iafhns....tc	665
AIR3	gikdylnflcslgyn...asqisvfgsnnftcsspk.islvnlnypsitvpn lts....	687
Seq_ID_21	etsdyvnflcsigydggdavfardssrvn.cserslatpgdlnypsf svvftge....	667
Seq_ID_22	etsdyvnflcsmaydgddavfardssrvn.cserslatpgdlnypsf svvftge....	667
Seq_ID_23	dtkdyvdf1caigydpkrispfvkdtsvn.cseknlvspgdlnypsf svvftge....	672
MDC16.21	evkeyvaflcavgyefpgilvflqdptlydacetkskrltagdlnypsf svvftge....	675
Seq_ID_27	tvddyinflcaldy...spsmikviakrdiscxnnkdielltlithllpflwk rawgeha	675
SBT1	tvddyinflcaldy...spsmikviakrdiscdenkeyrvadlnypsf s ipmetawgeha	675
ARA12	ttdetylglcalnyt..sp.qirsvsrrnytcdpsksysvadlnypsf avnvdgv.g..a	672
Seq_ID_26	gaqdyfeflctqqls...pgsqltvfgkfsnrtchhslanpgdlnypaisavfpedakvs.	79
SBT2	gaqdyfeflctqels...pgsqlmvfgkfsnrtchhslanpgdlnypaisavfpektks.	688
Seq_ID_28	qfkdyisylcglkytdr...qmgsslqrrtcsksvksipeaqlnypsf sislgan....	257
F22M8.3	stvdlynlylcslnytserillfsgtnytcashnavl...pgdlnypsf avn lvng....	666
Seq_ID_29	dtsdyin11lcslnytekemklftnes....npscsgftgsp1dlnypsls vvmfrpd....	72
Consensus	dy lc l y c dlnypsf	720

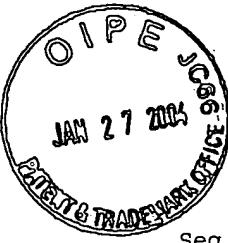




Figure 11G

Seq_ID_40	249			
Seq_ID_39	249			
Seq_ID_25	398			
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P69Atpqtytrtvtnvgdakssykveva.spealpskltr..anfssdqkltqvif	711			
P69Crlfertli.....	666			
P69B	.....tpqtytrtvtnvgdatssykveva.	.....spegvaieveslnfselnqkltqvif	.....	.....	.....	.....	712
Seq_ID_24	.....	.....	.....	.....	.....	.....	398
CUSSP	....qtfnqyfnrtltsvapqastyramis.	....apqgltisvnpn...vlsfnlgdrksftl	.....	.....	.....	.....	697
Seq_ID_19	.....	.....	.....	.....	.....	.....	289
Seq_ID_18	....pkriqefqrtvtnvgemssytaklt.	....smgdykasvapdklvfkelykqsyklrie	.....	.....	.....	.....	724
Seq_ID_20	....ptrvqefkrtvtnvggegvseytaelt.	....ampgkvsppklevfkdkyekqsyklrie	.....	.....	.....	.....	649
SBT4	....pwleqkfrrtltnvgkggatykvkie.	....spknstisvspqtlvfkknnekqsytlir	.....	.....	.....	.....	738
SBT3	....tlleqkfrrtltnvgkgaatykaklk.	....apkntstisvspqilvfkknnekqsytlir	.....	.....	.....	.....	723
AG12	....rrsvntfqrtvtnvgdgaatykatvt.	....apkdsrvivspqtlafgskyekqsynltii	.....	.....	.....	.....	721
AIR3	....skvtsrtvtnvggrp.	....smytvkvn.npqgvyyavkptlnftkvgeqktfkvilv	.....	.....	.....	.....	740
Seq_ID_21	..sng..vvkykrvvnnvngkntdavyevkvnapssevnvspaklvfseekqslsyeislk	.....	.....	.....	.....	.....	724
Seq_ID_22	..sng..vvkykrvvnnvngkntdavyevkvnapssevnvspaklvfseekqslsyeislk	.....	.....	.....	.....	.....	724
Seq_ID_23	..sds..vvknkrvvknvngrrntnavyevkinapgssevnvspaklvfseekqslsyeisfs	.....	.....	.....	.....	.....	729
MDC16.21	..stgevvkykrvvknvngsnnvadavyevgvkspanveidvspsklafsksvleyevtfk	.....	.....	.....	.....	.....	733
Seq_ID_27	nssaptvtrytrtltnvgnpatykasvss.emqevkijqvepqtlfsrkkktytvft	.....	.....	.....	.....	.....	734
SBT1	dsstptvtrytrtltnvgnpatykasvss.etqdvkilvepqtlfsrknnekktytvft	.....	.....	.....	.....	.....	734
ARA12	.....y.kytrrtvtsvggagtysvkvtts.ettgvkisvepavlnfkeaneekksytvft	.....	.....	.....	.....	.....	724
Seq_ID_26	.....tltlhrtvtnvgspisnyhvrvs.pfkagavvkvepsrlnftsckhqlksykvife	.....	.....	.....	.....	.....	132
SBT2	.....mltlhrtvtnvgspisnyhvrvs.afkgavvkvveperlnftscknqklsykvftk	.....	.....	.....	.....	.....	741
Seq_ID_28	.....qqtytrtvtnvgeamssyrvkivs.pqnvsvvvkpstlkftklnqkltqvif	.....	.....	.....	.....	.....	310
F22M8.3	..anlktrvrykrtrtvtnvgspceyvvhve.epkgvkvrvepkvlkfqkarerlsytvtyd	.....	.....	.....	.....	.....	723
Seq_ID_29	..ssvhvvkrtrtlthvavskpevykvkilmnlsekvsrlsispelmfneslrkqrymvkfe	.....	.....	.....	.....	.....	130
Consensus	rtvtnvg	y	p	v	p	l	f	k	y	780
Seq_ID_40	.....	.....	.....	.....	.....	.....	249
Seq_ID_39	.....	.....	.....	.....	.....	.....	249
Seq_ID_25	.....	.....	.....	.....	.....	.....	398
P69D	kttnis.....ttsdvegflkwnsnrhsvrspiavrvsae.	.....	.....	.....	.....	.....	747
P69A	ktanss.....nteviegflkwtsnrsrvrspiallliq..	.....	.....	.....	.....	.....	745
P69C	.....	.....	.....	.....	.....	.....	666
P69B	kttnss.....npeviegflkwtsnrsrvrspiavvsa..	.....	.....	.....	.....	.....	745
Seq_ID_24	.....	.....	.....	.....	.....	.....	398
CUSSP	tvrgsi.....kgfvvsaslvwsdgvhyvrspititslv..	.....	.....	.....	.....	.....	731
Seq_ID_19	.....	.....	.....	.....	.....	.....	289
Seq_ID_18	gpllv.....diilfmvl..	.....	.....	.....	.....	.....	737
Seq_ID_20	cpqlmn.....dflvhgslswvekqgkyyvrvspivatns..	.....	.....	.....	.....	.....	683
SBT4	yrgdfn.....sgqtgsitwvekgnrsvrspivltttvdlwgaed..	.....	.....	.....	.....	.....	779
SBT3	yigdeqg.....srnvgsitwveqngnhsrvrspiitvpiiev..	.....	.....	.....	.....	.....	761
AG12	nfrdtk...rkdisfgalwanengkhmrspivv splind..	.....	.....	.....	.....	.....	761
AIR3	kskgn.....vakgyvfgelvwsdkhvrspivvkl..	.....	.....	.....	.....	.....	772
Seq_ID_21	skks.gdlqmvkgiesafgsiewsdgihnvrsplavrwrhysdaasm..	.....	.....	.....	.....	.....	770
Seq_ID_22	skks.gdlqmvkgiesafgsiewsdgihnvrsplavrwrhysdaasm..	.....	.....	.....	.....	.....	770
Seq_ID_23	sngsvg.lervkglesafgsiewsdgihnvrspliavhwlhatesq..	.....	.....	.....	.....	.....	775
MDC16.21	svlggvgsvpghe..fgsiewtdgehvkvspavqwgqgs.vqsf..	.....	.....	.....	.....	.....	777
Seq_ID_27	a.ss.....kpsgtts.farlewsdgqhvvaspiafswt..	.....	.....	.....	.....	.....	766
SBT1	a.ts.....kpsgtts.farlewsdgqhvvaspiafswt..	.....	.....	.....	.....	.....	766
ARA12	vdss.....kpsgsns.fgsiewsdgkhvvgspvai..	.....	.....	.....	.....	.....	757
Seq_ID_26	tkyr.....qkare..fgsllwkdgthkvrstivitwlasi..	.....	.....	.....	.....	.....	166
SBT2	tvsr.....qkape..fgsliwkdgthkvrspiaitwlasi..	.....	.....	.....	.....	.....	775
Seq_ID_28	tttn.....itnmevvhgylkwtsdkhfvrspliavilqehetped..	.....	.....	.....	.....	.....	350
F22M8.3	aeasrn.....sssssfgvlvwicdkynvrspia..	.....	.....	.....	.....	.....	756
Seq_ID_29	shhifnss.rkiaeinqafgsiswesekhnvrspfamvwqgnfnnsrlykit	.....	.....	.....	.....	.....	181
Consensus	g	w	g	h	vrspia	.....	840		



TMV-SeqID 3 (-)

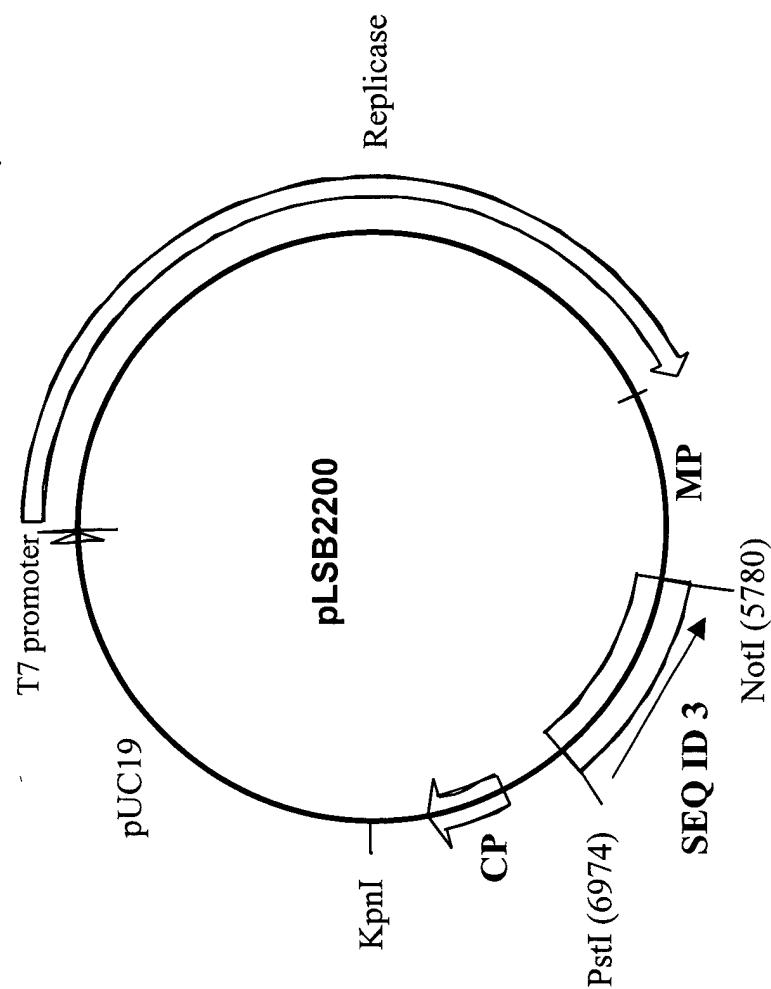


FIGURE 12A



TMV-SeqID 3 (+)

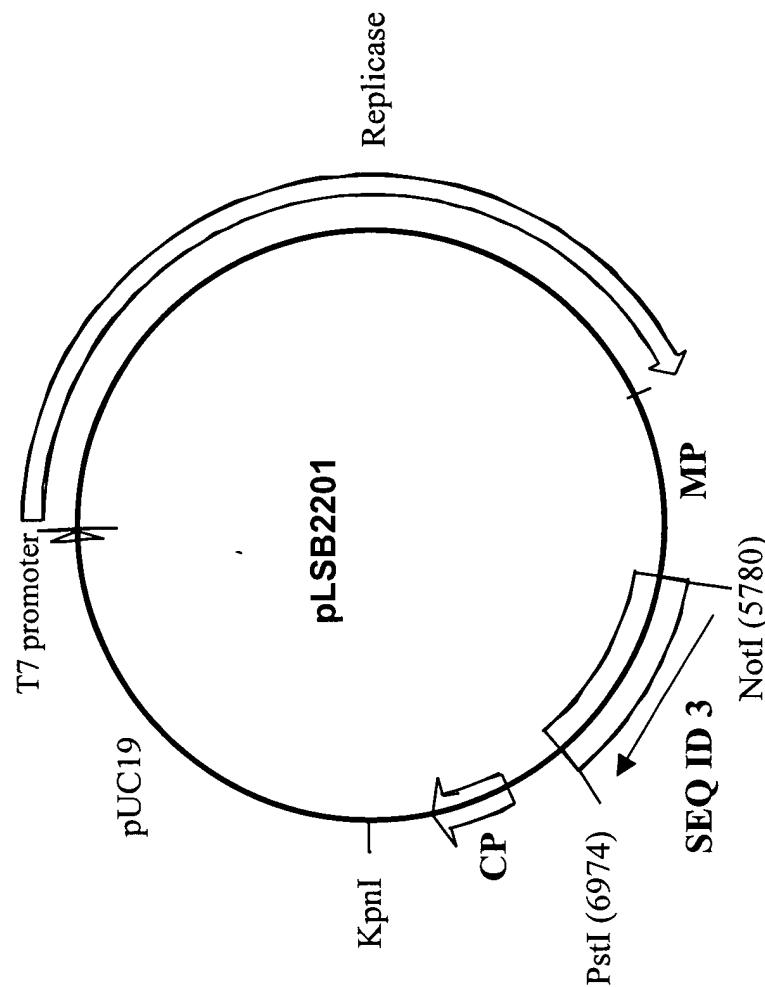


FIGURE 12B



1 2 3

FIGURE 13



TRV RNA-2 SeqID 3 (+/-)

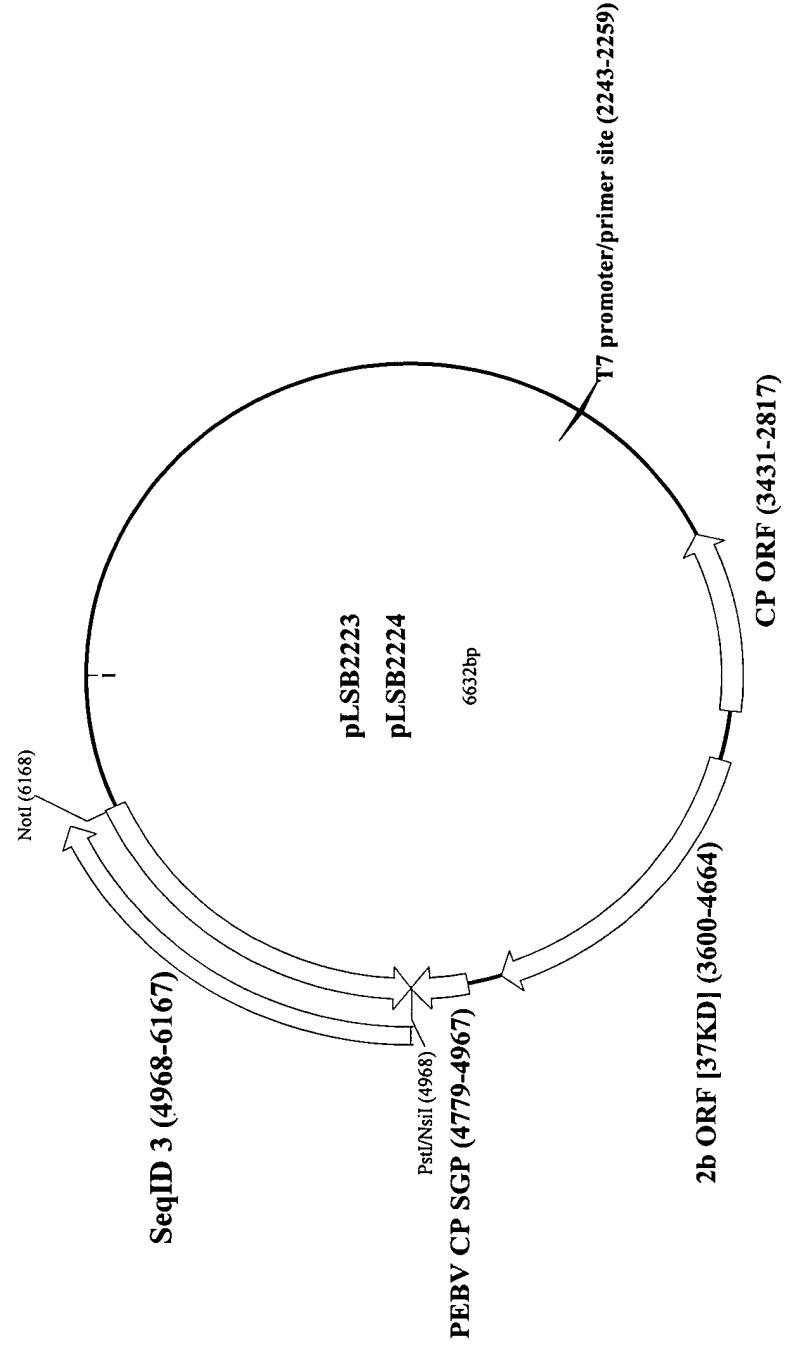
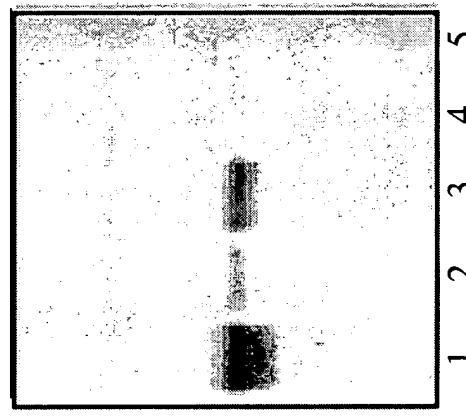


FIGURE 14



hGH—

FIGURE 15



Figure 16AA

Seq_ID_17	.....	0
Seq_ID_7	.....	0
Seq_ID_11	.....	0
Seq_ID_14	.....	0
Seq_ID_15	.....	0
Seq_ID_4	.....	0
Seq_ID_3	.....	0
Seq_ID_10	gctagcaccaaccccccctcttaccaaaggaaactcttcccttcagtagagaact	60
Seq_ID_5	.....	0
Seq_ID_8	.....	0
Seq_ID_16	.....	0
Seq_ID_13	.....	0
Seq_ID_12	.....	0
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus	.....	.....
Seq_ID_17	GGCCAATTGTATTACTATGTATTCTGCTCCTACTATCTTATTACTTACTCTAAATCC	60
Seq_ID_7	.....	0
Seq_ID_11	.....	0
Seq_ID_14	.....	0
Seq_ID_15	.....	0
Seq_ID_4	.....	0
Seq_ID_3	.....	0
Seq_ID_10	tcCattTTcTggTtaccTGacacTgagaacCgcaAaaAgaTggcaAgaccCggggcata	120
Seq_ID_5	.....ccCacGCgtCcggtTtTtccATTctTTttcaTtAtTa.	37
Seq_ID_8	.....gtTtTtccATTctTTttcaTtAtTa.	25
Seq_ID_16	.....CacttTCtTcgtctCTTcTtTtccCctctTaa	36
Seq_ID_13	.....	0
Seq_ID_12	.....	0
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus	.....	.....
Seq_ID_17	ATTAACATGGCAGAGTCAGAAACTTATATCATCCATATGGACTTATCAGCCATGCCTAA	120
Seq_ID_7	.....	0
Seq_ID_11	.....	0
Seq_ID_14	.....	0
Seq_ID_15	.....G.....	1
Seq_ID_4	.....	0
Seq_ID_3	.....	0
Seq_ID_10	gTTcttTcaacactAtTCctAAAtgTTgTtTCATgtgTtTGttCaTgcagGCCAgaaCcAg	180
Seq_ID_5	tcTcttTcTGcCtcAcTCcGgtgaccATtCCgtCcaATccgaTggTCAtgaAacttTca	97
Seq_ID_8	tcTcttTcTGcCtcAcTCcGgtgaccATtCCgtCcaATccgaTggTCAtgaAacttTca	85
Seq_ID_16	tcTtctTcTttCtcAactttAgTaATtTCAGtCcaATtGgacggTCAtaaAacttTca	96
Seq_ID_13	.....	0
Seq_ID_12	.....	0
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus	.....	.....



Figure 16AB

Seq_ID_17	AGCTTTCTAGCCATCAGAATTGGTACTTGACCACTCTGCTTCTGTATCAGGTAGTTC	180
Seq_ID_7	.....	0
Seq_ID_11	.....	0
Seq_ID_14	.....	0
Seq_ID_15	.....	1
Seq_ID_4	.....	0
Seq_ID_3	.....	0
Seq_ID_10	AaaaagactTAcatAatttAcaTGGacaagtcCaACatacctgctgaTtTtgatgAtcaC	240
Seq_ID_5	tcaTTcacgTttCCAaatccgaTaagcCccGtgtttTCaccaccCaccAcCAttggtaact	157
Seq_ID_8	tcaTTcacgTttCCAaatccgaTaagcCccGtgtttTCaccaccCaccAcCAttggtaact	145
Seq_ID_16	tagTacacgTgtCCAaatcccaTaagcCccacatctTtactaccCgccAaCAttggtaact	156
Seq_ID_13	.....	0
Seq_ID_12	.....	0
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus		
Seq_ID_17	AAGTCTTGGAACTGAAAGTAATAGAAATTCCCTTCCATCAAAACTA..GTATATGCT	238
Seq_ID_7	.....	0
Seq_ID_11	.....ACcc..cTcgAccna	13
Seq_ID_14	.....	0
Seq_ID_15	.....	1
Seq_ID_4	.....	0
Seq_ID_3	.....	0
Seq_ID_10	ActctgTGGtAtgactcaTctTtaAAgTcagTaTcCaaaggCgccAacAtgcTtTAcaCc	300
Seq_ID_5	cctcCaTcatcCgatccGT.....ttcccaaCaCccttctAaaAtccTcTAcaCc	207
Seq_ID_8	cctcCaTcatcCgatccGT.....ttcccaaCaCccttctAaaAtccTcTAcaCc	195
Seq_ID_16	cctcCaTccctCgatcAGTctttct.TcttcccaaCaCtctgccAaaAtccTtTAactCT	215
Seq_ID_13	.....	0
Seq_ID_12	.....	0
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus		
Seq_ID_17	TACACTAACGCTATTCATGGTTTAGTGCACACTTTCTCCTTCTGAGCTACAAGTTATA	298
Seq_ID_7	.....	0
Seq_ID_11	cgCgnncngC.CcAcgCgTccgccccAcgcgtcCgCTTCTCCTTCCAGtacaAAGccATc	72
Seq_ID_14	.....	0
Seq_ID_15	.....	1
Seq_ID_4	.....	0
Seq_ID_3	.....	0
Seq_ID_10	TACAacAAtGtcATcCATGGcTactcaaACagCTaaCagCTgaTGAagccaAAtcTcTt	360
Seq_ID_5	TATgaacgtGCcggcgtGGcTTctcTGCACgcCTcaCagCcgCTcAGgcccAtcagcTc	267
Seq_ID_8	TATgaacgtGCcggcgtGGcTTctcTGCACgcCTcaCagCcgCTcAGgcccAtcagcTc	255
Seq_ID_16	TACgaTtAtGCTgccCgTGGTTTctcTGCCcgTCTcaCTtCcgggcAGgctgAccggcTc	275
Seq_ID_13	.....	0
Seq_ID_12	.....	0
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus		



Figure 16AC

Seq_ID_17	AAAAATTCTCCAGGCTATCTTCTTCAACTAAGGACATGACAGTTAAAATTGACACGACA	358
Seq_ID_7	.....	0
Seq_ID_11	AAgAATTCTCtAGGgTATgTTTCTTCgAtggAGGACAgGACAGTTAAAATTcACACGACc	132
Seq_ID_14	.....	0
Seq_ID_15	.....	1
Seq_ID_4	.....	0
Seq_ID_3	.....	0
Seq_ID_10	gAAcAgcaaCCtGGaatTCTCtCGgtccaTgAGGAagTGAagAtacgAgcTTcAtACcACt	420
Seq_ID_5	cggcgTatTCCcGGtgtaaTcTCcgccTcccGACgaagtAcgccAtcTccACACcACc	327
Seq_ID_8	cggcgTatTCCcGGtgtaaTcTCcgccTcccGACgaagtAcgccAtcTccACACcACc	315
Seq_ID_16	cggcgcatgCCtGGCgtggTcTCcgctgacGACcgtgCAcgTcAgcTTcACACcACt	335
Seq_ID_13	.....	0
Seq_ID_12	.....	0
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus		
Seq_ID_17	CACACGTCTCAATTCTTGGCTAAATTCCGATTCTGGTGCATGG..CCAAAGTCAGACT	416
Seq_ID_7	.....	0
Seq_ID_11	CAttCaTCcCAttTCCCTTGGCTAAgCTCaatgTaTGGTtCATGG..CCAAAGTCAAACT	190
Seq_ID_14	.....	0
Seq_ID_15	.....	1
Seq_ID_4	.....	0
Seq_ID_3	.....	0
Seq_ID_10	CgatCccCTAcATTtCTgGGaCTtgAaggacgTgaaaGTaaATcattCttctTCAagCT	480
Seq_ID_5	CAtACccCTaccTTCTtGgACTtgcTgaCtcTTtcGGccttTGG..CCcAAcTCcGAtT	385
Seq_ID_8	CAtACccCTaccTTCTtGgACTtgcTgaCtcTTtcGGccttTGG..CCcAAcTCcGAtT	373
Seq_ID_16	CACACacCgaccTTCTaGGCCTcgagattcaTtTGGccttTGG..CCcAAcTCcGAtT	393
Seq_ID_13	.....	0
Seq_ID_12	.....ctCcgAtcgaatcctaAGTctAaattgCCAAgtTtgctag	41
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus		
Seq_ID_17	ATGGCAAA....GATGTTATAGTTGGATTAGTTGACACA.GGGATTG GCCAGAGAGTAA	471
Seq_ID_7	.....t.GGtATcaacgCAGAGtGccA	21
Seq_ID_11	ATGGCAAA....GgTGTTATcaTTGGtgTAGTTGAtACA.GGGTTTGGCCAGAGAtTAA	245
Seq_ID_14	.....GgcGTgATTaTcGGAgTtaTaGACACt.GGATTgttCCtGAccaTcc	47
Seq_ID_15	.....GgcGTgATTaTcGGAgTtaTaGACACt.GGATTgttCCtGAccaTcc	48
Seq_ID_4	.....GgcGTgATTaTcGGAgTtaTaGACACt.GGATTgttCCtGAccaTcc	47
Seq_ID_3	.....GgcGTgATTaTcGGAgTtaTaGACACt.GGATTtCCtGAccaTcc	47
Seq_ID_10	gaaaCAAggagtGAgGTcATTGGtgTgcTgGACACt.GGtgTTTGGCCtGAatcaAA	539
Seq_ID_5	AcGctgAt....GATGTCATCGTcGGAgTtcTgGACACg.GGtATaTGGCCgGAaAGacc	440
Seq_ID_8	AcGctgAt....GATGTCATCGTcGGAgTtcTgGACACg.GGtATaTGGCCgGAaAGacc	428
Seq_ID_16	AcGctgAt....GACGTcATCGTcGGggTgcTcGACACg.GGcATTG GCCcGAaAGgcc	448
Seq_ID_13	.....	0
Seq_ID_12	AgccagAAatctctcaagtgc ccaGaAgcctTgagCgCgaGGtgcctGGCCttAatcagA	101
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus	g gt at t ggagt t gacac gg attt cc ga c	
	Conserved Region A	



Figure 16AD

Seq_ID_17	AAGCTAT.AATGATAATGGGATGACTGAAGATTCCATCAAGATGGAAAGGAGAATGTGAAA	530
Seq_ID_7	ttaCggccgggGATgATGGGATtAgTGAAGTaCCATCAAGATGGAAAGGAGAATGTGAAA	81
Seq_ID_11	AAGCTtT.gATGATgATGGGATGAgccAAGTTCCATCAAGgTGGAAAGGAatATGTcAAA	304
Seq_ID_14	ttcaTtT.AgcGAcgtTGGGATGcCTcctccgCCTgCtAaATGGAAAGGAtttTGTGAgT	106
Seq_ID_15	ttcaTtT.AgcGAcgtTGGGATGcCTcctccgCCTgCtAaATGGAAAGGAtttTGTGAgT	107
Seq_ID_4	ttcaTtT.AgcGAcgtTGGGATGcCTcctccgCCTgCtAaATGGAAAGGAtttTGTGAgT	106
Seq_ID_3	ttcaTtT.AgcGAcgtTGGGATGtCTccccccgCCTgCtAagTGGAAAGGAtttTGTGAgT	106
Seq_ID_10	AAGtTtT.gATGAcAcTGGactTaggTccAGTcCCatgAGcTGGAAgGGtGAgTGccAAA	598
Seq_ID_5	gAGtTtT.tccGAcgAgGGtCtCtCTacgGTTCCtTCAAGtTGGAAAGGgaAgTGcGttA	499
Seq_ID_8	gAGtTtT.tccGAcgAgGGtCtCtCTacgGTTCCtTCAAGtTGGAAAGGgaAgTGcGttA	487
Seq_ID_16	gAGCTtT.tccGAcggcGGGcTttCTGcAGTcCCtTCCgGtTGGAAAGGAAATGcGAAA	507
Seq_ID_13	.....	0
Seq_ID_12	AAGCTtT.AtTGATgAaGaattGggaccAaTTCCATCtAagTGGAgAGGgattTaccAAA	160
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus	ttt gacg tggg t ct c t cct c a tggaaagga tg ga a	
	Conserved Region A	
Seq_ID_17	GTGGAACTCAATTAAATTCCCTTTATGCAACAAGAAACTCATTGGTGC CGCTTACTTCA	590
Seq_ID_7	GTGGtACTgAgTTcAATTCCCTTTgTgtAACAGAAgCTCATTGGcGctCGTTACTTCA	141
Seq_ID_11	cTGGcACTCAgTTAATTCTtCtTgTGtTGCAACAAGAAACTCATCGGAGCtCGTTACTTCA	364
Seq_ID_14	cTaatttcacgaccAA.....gTGTAAACAAcAAACTCATTGGaGCcaGgTctTTC.	156
Seq_ID_15	cTaatttcacgaccAA.....gTGTAAACAAcAAACTCATTGGaGCcaGgTctTTC.	157
Seq_ID_4	cTaatttcacgaccAA.....gcGtAAACAAcAAACTCATTGGaGCcaGgTctTTC.	156
Seq_ID_3	ccaatttcacgacaAA.....gTGTAAACAAcGtAACTCATAGGactcaGgTctTT.	156
Seq_ID_10	tTGGcAagaAcTTcAAagCaTCaagcTGTAAACcgGAAACTCATTGGTGCaaGgTttTTCT	658
Seq_ID_5	cTGGAcCTgAtTTTccTgaaaAcCtCtATGtAAATAAaAAAATCATAGGcGctCaaatgTTtt	559
Seq_ID_8	cTGGAcCTgAtTTTccTgaaaAcCtCtATGtAAATAAaAAAATCATAGGcGctCaaatgTTtt	547
Seq_ID_16	cTGGgctggAcTTTccTgCaactTcATGtAACcgtaAAATCATAcGGTGCtCGaTtgTTtt	567
Seq_ID_13	.....	0
Seq_ID_12	aTaattCTgAtcacAcc...TtTTAGTGCAAAAgGAAgCTaATTGGaGCaaGgTACTTCA	217
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus	ct a aa tgtaacaa aaactcat gg gc g t ttc	
Seq_ID_17	ACAAAGG.....CCTAATTGCCAATA...ATCCGAATATTACCATCTCGATGAATT CAG	641
Seq_ID_7	AtAAAGG.....CCTAcTTGCCAAcA...ATCCaAATcTTAatATTtCtAATGAATT Ctt	192
Seq_ID_11	AtAAAGG.....aCTAcTTtCtAAag...tgaaaAATcTTACCATCatGATaAATT CtG	415
Seq_ID_14	.....CcgcT...tgAc.....AATggtc	172
Seq_ID_15	.....CcgcT...tgAc.....AATggtc	173
Seq_ID_4	.....CcgcT...tgAc.....AATggtc	172
Seq_ID_3	.....CgAtTatCtgAa.....gATAcCc	175
Seq_ID_10	cacAAGGttatgaagcAgcTttCgggg...caattgATgagACCAcagaatccAAgTCAc	715
Seq_ID_5	ACAAAGGttagaagctAaacatgg...ccaaatGgATgaatCaAaagaatcaAAaTCgc	616
Seq_ID_8	ACAAAGGttagaagctAaacatgg...ccaaatGgATgaatCaAaagaatcaAAaTCgc	604
Seq_ID_16	ACAAAGGttacgaagctgaTcggtggAgcccaattgAcgaatCtAaagaatctAAaTCgc	627
Seq_ID_13	.....	0
Seq_ID_12	ACgAAGGatacgtgactcTaGCAGat.....cTcTcAattcaagttTctAcaCAC	268
Seq_ID_9	.....	0
Seq_ID_6	.....	0
Consensus	aagg c t tg aa c c	



Figure 16AE

Seq_ID_17	CTCGTGACACTGATGGGCATGGAACCTCACACATCCTACAGCTGCAGGAAGTCATGTAG	701
Seq_ID_7	CTaGaGAtACcGATGGaCATGGAACCTCACACTCTCTACAGCTGCAGGAAGTtATGTtG	252
Seq_ID_11	CcCGTGAtACaGAAGGAGCATGGAACCTCACACTCTACAGCTGCAGGAAGTtATGTtG	475
Seq_ID_14	CcataGAgtaaaaATGGaCATGGtACGCAAGCAGCTGCAGGAAGCttTGTga	232
Seq_ID_15	CcataGAgtaaaaATGGaCATGGtACGCAAGCAGCTGCAGGAAGCttTGTga	233
Seq_ID_4	CcataGAgtaaaaATGGaCATGGtACGCAAGCAGCTGCAGGAAGCttTGTga	232
Seq_ID_3	CgataGAgtACTGATGGaCATGGtACaCACACTgCtagcACAGCTGCAGGAAGCttTGTga	235
Seq_ID_10	CaaGgGACGtaTGATGGcCATGGgACaCACACTgCaaCTACAGCAGCtGGctcggtTGTAA	775
Seq_ID_5	CaaGaGAtACTGAAAGGACATGGAACACAtACAGCaTCaACAGCaGCtGGtctTtaGTgG	676
Seq_ID_8	CaaGaGAtACTGAAAGGACATGGAACACAtACAGCaTCaACAGCaGCtGGtctTtaGTgG	664
Seq_ID_16	CaaGaGAtACTGAAAGGACATGGgACTCACACTgCtTCaACtGCaGCtGGAtcTgtTGTAG	687
Seq_ID_13	.....	0
Seq_ID_12	CaCGaGACACTGATGGaCATGtttCcCACACgcagTtcAagGaTcaAGtgttTCccGgtA	328
Seq_ID_9	.....	0
Seq_ID_6	.....ggCCatTACGcGCcGggcacgtgaATcctG	29
Consensus	c agagatac gatggacatgg ac ca ac gc acagctgc gga ct ttgt	
	Conserved Region B	

Seq_ID_17	AATCTGCATCTTATTTGGTATGCGCGTGGTCTGCTACAGGGATGGCACCAAAGGCTC	761
Seq_ID_7	AgggTGCATCTTATTTGGTATGCGccGGTaCTGCTAttGGcAtaGCgCCAAAGGCTC	312
Seq_ID_11	AgggTGCgTCTTATTTGGTATGCGccGGTaCTGCTAttGGcAtaGCgCCAAAGGCTC	535
Seq_ID_14	AAggTGCtaaTgtatTTGGaATGCcaaTGGaaCaGCagttGGtGttGCcCCtcttGCgt	292
Seq_ID_15	AAggTGCtaaTgtatTTGGaATGCcaaTGGaaCaGCagttGGtGttGCcCCtcttGCgt	293
Seq_ID_4	AAggTGCtaaTgtatTTGGaATGCcaaTGGaaCaGCagttGGtGttGCcCCtcttGCgt	292
Seq_ID_3	AAggTGCcaaTTtcTTGGtaATGCcaaTGGcaCaGCagttGGtGttGCcCCtcttGCcC	295
Seq_ID_10	cgggaGCtagcctcTTGGtATGCTgcTGGcaCaGCacgtGGGATGGCttCACAtGCaa	835
Seq_ID_5	cAaaTGCtagcTtTTaccaaTATGCcaaAGGT.....ATGGCtatAAAaGCaa	724
Seq_ID_8	cAaaTGCtagcTtTTaccaaTATGCcaaAGGTgaaGCTAgAGGtATGGCtatAAAaGCaa	724
Seq_ID_16	ctaacGCtagTTtTTTcaaTAcGCaaaAGGTgaaGCTAgAGGcATGGCtgtgAAaGCTC	747
Seq_ID_13	.....	0
Seq_ID_12	tggaaa.....TGGaacaGCaaAGGGTggatCacCaaaagTaagAgtAgcaGCTt	378
Seq_ID_9	.....cccaCgcgtCcgatGGTgCaG.gACACatAaatCcaCgAAagct	44
Seq_ID_6	AATCgGCtatTgATccgGGCtaatatacGacaCTG..AtAcatcaGaCtaCATcaaCct	87
Consensus	aag tgcta t t ttgg atgccaatggt cagc gg t gc ca gc	
	Conserved Region B	

Seq_ID_17	ATGTGGCAATGTACAAGGCTTGTGGGAAGAAG...GTACAATGTTATCTGATATTCTGG	818
Seq_ID_7	ATGTGGCtATGTACAAGGCTcTaTGGGAAGAAG...GTgtAtacTTgTCTGATGTTCTtG	369
Seq_ID_11	ATGTGGCtgTGTACAAGGCTcTcTGGGAtGggG...ccggAccaTtTCTGATATTCTtG	592
Seq_ID_14	AcaTaGCcAtaTATAGGtaTgcgGttctGAtGgcgtTtgcgtatgtTGAAATTtTaG	352
Seq_ID_15	AcaTaGCcAtaTATAGGtaTgcgGttctGAtGgcgtTtgcgtatgtTGAAATTtTaG	353
Seq_ID_4	AcaTaGCcAtaTATAGGtaTgcgGttctGAtGgcgtTtgcgtatgtTGAAATTtTaG	352
Seq_ID_3	AcaTGGCcAtaTATAGGtaTgcgGttctGAtGgcgtTtgcgtatgtTGAAATTtTaG	352
Seq_ID_10	gaGTGGCtgcaTAAAGtaTgtTGGGctGgAG...GatgttTtagcagcGAcATACTaG	892
Seq_ID_5	gaaTaGCcgctTACAAGatTTgcTGGaAAAAtG...GctgttTtaatTCTGATATatTGG	781
Seq_ID_8	gaaTaGCcgctTACAAGatTTgcTGGaAAAAtG...GctgttTtaatTCTGATATatTGG	781
Seq_ID_16	gaaTaGCAGctTAtAAAGatcTgtTGGAAACAG...GgtgttTtgcgtTCTGATATtTaG	804
Seq_ID_13	.....	0
Seq_ID_12	AcagaGtttgctggcctcCaaTtatGGcagtG...GgtgttTtgcgtTCAAGATATctTGG	435
Seq_ID_9	gTtgacCctgGTtgggttaTgacataggGgcGcagGattAcTtcgAatTccTATgCaca	104
Seq_ID_6	ActatGCAGctTgaActaCacaGaGaaAgaAAAtgaaactttcagcAaCgagTcaaaTcc	147
Consensus	a atagc ta aaggatgg gg ga g g tgg t at ctgatattt g	
	Conserved Region B	



Figure 16AF

Seq_ID_17	CTGCAATTGATCAGGCAATTGAGGATGGAGT..GGATATAATATCCTTATCATTAGGCAT	876
Seq_ID_7	CTGCAATTGATCaaGCAATTacaGATGGtGT..GGATgTctTATCCTTgTCgTTAGGCAT	427
Seq_ID_11	CTGCAATgGATCAGGCAATTGcGGATGGtG..tGATATctTATCCTTgTCATTtGGCgc	650
Seq_ID_14	CTGCgATgGATgtaGCtATTGAtGATGGcGT..aGATATTcTATCaaTATCccTtGGtgg	410
Seq_ID_15	CTGCgATgGATgtaGCtATTGAtGATGGcGT..aGATATTcTATCaaTATCccTtGGtgg	411
Seq_ID_4	CTGCgATgGATgtaGCtATTGAtGATGGcGT..aGATATTcTATCaaTATCccTtGGtgg	410
Seq_ID_3	CTGCcATgGATgcaGCtATAgAtGATGGtGT..aGATATcATTCCgcATCtcTAGGCgg	410
Seq_ID_10	CaGggATgGATCAGGCcgTcataGATGGtGT..aaAtgTAcTcTCacTgTCccTtGGtgg	950
Seq_ID_5	CTGCcATgGATCaaGCtggTGAAtGATGGtGT..GcAtgTgATcTCacTtTCtggTtGGggc	839
Seq_ID_8	CTGCcATgGATCaaGCtggTGAAtGATGGtGT..GcAtgTgATcTCacTtTCtggTtGGggc	839
Seq_ID_16	CTGCAATgGATCaaGCtggTGAAtGATGGAGT..tcAcgTgATTCTcTtTCcgtTtGGCgc	862
Seq_ID_13	.....	0
Seq_ID_12	tTGCTtTTGATttGGtAATTGAtGATGGcGT..GGAcgTgcTtTCagTcTCACtTGGagg	493
Seq_ID_9	CaaCAACtCAGCccttcAcaGctaAcaGttTttGGAAgttctcCaacAgaAcTtGcCAT	164
Seq_ID_6	tTGCTcggGtTttactggATcTccActtgaTcttaActatccATCacTtTCtggTttagtT	207
Consensus	ctgc atggatc agc attgatgatgg gt gat t t tca t tc ttgg g	
Seq_ID_17	AGATGATC...TTGCTTTATATG.....AGGATCCGGTAGCTATTGCCACATTGCA	925
Seq_ID_7	AGAcGcga...TTcCacTAcAcG.....AaGATCCtGTgGCaATTGCCgCATTGCT	476
Seq_ID_11	AGTtTtcTCcatTccCTcTATATA.....taGATCCtaTctCTATTGCTtCATTTtCt	702
Seq_ID_14	AacTagTaa...TcCgTTccATA.....AtGAcacaGaTtGCTcTTGgggCgTaTagt	459
Seq_ID_15	AacTagTaa...TcCgTTccATA.....AtGAcacaGaTtGCTcTTGgggCgTaTagt	460
Seq_ID_4	AacTagTaa...TcCgTTccATA.....AtGAcacaGaTtGCTcTTGgggCgTaTagt	459
Seq_ID_3	AttTacTaacgcTcCaTTAcATG.....AtGAcCCTaTttCTcTTGggCgCgTacagt	462
Seq_ID_10	cacaatTtc...TGAATTatTACA.....gGGATataGTAGCaATTGgaggATTTTtCt	999
Seq_ID_5	taAcGgTtatgcTcCacatTATctgt.....AtGATtCtaTtGCaATTGgagCtTTTgg	894
Seq_ID_8	taAcGgTtatgcTcCacatTATctgt.....AtGATtCtaTtGCaATTGgagCtTTTgg	894
Seq_ID_16	tGAcGgTtatgcacCggaATATGatg.....cGGATTcTaTtGCTATTGgagCtTTTgg	917
Seq_ID_13	.....	0
Seq_ID_12	AGATAcTg.....gagcATATGtca.....AtGActCtGTAGCTATTGttCATTTcat	542
Seq_ID_9	cacTcgctt.gcTaaTccAgggGact.....tGAAcActaccccGccATTtCtgCAGTTttt	218
Seq_ID_6	caggcccTgattccCTgTtcATGttgttaagAGGAcattaacaCatgTcgCggTTctaA	267
Consensus	aa t t a tcc t at a ga ctat gctattgg gc ttt t	
Seq_ID_17	GCAATGGAGAAAGATATATTGTTCCACTTCAGCTGGAAATGAAGGGCTGACGATCAG	985
Seq_ID_7	GCAtTGGAGAAAGgTATATTGTTCCACCTCtGCAGGAAATGAAGGGCTtAttATgAG	536
Seq_ID_11	GCAATGGAGAAAGgcATATTGTTCCgtTTCAGCTGGAAATGAAGGGCTtCGATCAA	762
Seq_ID_14	GCAAcAaAgAggTATTcTTGTTagttgtTCTGCAGGAAATGAAGGGCTtCCatCaaCgc	519
Seq_ID_15	GCAAcaGAaAgAggTATTcTTGTTagttgtTCTGCAGGAAATGAAGGGCTtCCatCaaCgc	520
Seq_ID_4	GCAAcaGAaAgAggTATTcTTGTTagttgtTCTGCAGGAAATGAAGGGCTtCCatCaaCgc	519
Seq_ID_3	GCAAcaGAaAAAGgTATTcTnGcTagtgCcTCTGCAGGAAATGAAGGGCTtCCatCaaCgc	519
Seq_ID_10	GCAgcttctcAAGGaaATcTTCGTcTCgtgcTCgGCTGGgAATGgcGGGCaGgCtcTgg	1059
Seq_ID_5	GCAtctGAacAtGcgTccTcgTcTCatgtTCTGAGCTGGAAATtctGGtCCcGgaGcTtAt	954
Seq_ID_8	GCAtctGAacAtGcgTccTcgTcTCatgtTCTGAGCTGGAAATtctGGtCCcGgaGcTtAt	954
Seq_ID_16	GCttcaGAacAtGcgTtgcTCTGtgcTCtGCTGGAAActccGGtCCcGgtGcTtcc	977
Seq_ID_13	.....	0
Seq_ID_12	GttgTtaAGcAcGgcATTgTTGtcgttAccTCTGCTGGtAAActcgctctggcCcggtAc	602
Seq_ID_9	cCtgaaGA.cgcaAaAgtTTcaacgcTgacgCttCacagAACagtcacAatgtGggttc	277
Seq_ID_6	GCctgaGgtgtAcAaAgtaaaGaTaCtgaATCtGaaATTctgaaAAGGtttagttaAgtAt	327
Consensus	gca c ga aagg att ttgtt ct tctgc gg aat gg cc t at a	



Figure 16AG

Seq_ID_17	GCTTTGCACAAACGGAACACCTGGGTTCTAAC TGTTGCTGCTGGCACAGTTGATCGCGAA	1045
Seq_ID_7	aCTTTGCACAAatGGAACACCTGGGtTAAC TGTTGCaGCTGGCACAGTTGAcCGCGAA	596
Seq_ID_11	tCTTTGagCAAatGaggCACCTTGGtTTCTctCTGTTGCTGCTaGCACAGTTGATCGgGAc	822
Seq_ID_14	aCTgTagACAAatGacgCcCCTTGGaTTCTcACaGTTGgcGCTaGCACtcaTGATaGaaAA	579
Seq_ID_15	aCTgTagACAAatGacgCcCCTTGGaTTCTcACaGTTGgcGCTaGCACtcaTGATaGaaAA	580
Seq_ID_4	aCTgTaaACAAatGacgCcCCTTGGaTTCTcACaGTTGgcGCTaGCACtcaTGATaGaaAA	579
Seq_ID_3	cCTgTagcaAAtaAtgCcCCTTGGaTTCTcACaGTTGgcGCTaGCACccatGATaGaaAA	579
Seq_ID_10	tCccTtcCACGctgCACCaTGGaTaactACTGtaGgTGCgGGgACcaTgGAcCGCGAA	1119
Seq_ID_5	aCggcagtgAACattgCcCCgTGGaTgCtcACTGTTGgTGCatcaACtaTaGATCGtGAg	1014
Seq_ID_8	aCggcagtgAACattgCcCCgTGGaTgCtcACTGTTGgTGCatcaACtaTaGATCGtGAg	1014
Seq_ID_16	aCgcGgtCAACGttgCgCCgTGGaTTCTcACcGTTGCTGCTcaACgaTaGAcCGgGAg	1037
Seq_ID_13	.....	0
Seq_ID_12	aaTacGaAaAA.attgCACCTTGGcTcaTAAC TGTTGgcGCgaGaACtaTgGATtGtcAg	661
Seq_ID_9	tCcaatatCAAattAcCATgTTaGagTCTcgCcGTTcaaagggtGCAgatcgTGAagGttgA	337
Seq_ID_6	aaggccaaAtggaGctgatgtTcaatgaaTcttTaagGaaaCaaaggtaAtaTGgTCa..AA	385
Consensus	act t caa g gc cttggattctcaactgttgg gct gcac ttgatcg aa	
Seq_ID_17	TTTATCGGGACACTAAGTCTGGGTAATGGAGTTCAGTCACTGGTTATCTCTCTACC..	1103
Seq_ID_7	TTTATtGGaACAtTAAcTCTtGGaAATGGAGTTCAGTCCTGGTTATCgCTaTACC..	654
Seq_ID_11	gTTATCaGGAtAtTAAcTCTtGGTAATGGAGTTCAGTCACTGGTTATCTCTCTACC..	880
Seq_ID_14	cTaAagGccACtgTtAagCTtGGaAATaaAGaagaAtTgaaGGagaATCTgctTAtCat	639
Seq_ID_15	cTaAagGccACtgTtAagCTtGGaAATaaAGaagaAtTgaaGGagaATCTgctTAtCat	640
Seq_ID_4	cTaAagGccACtgTtAagCTtGGaAATaaAGaagaAtTgaaGGagaATCTgctTAtCat	639
Seq_ID_3	cTaAaaGccACcgTtAagCTtGGaAATaaAGaggaAtTgaaGGagaATCTgctgAtCag	639
Seq_ID_10	TTcccaGcatataTtAGCCTtGGaAATGGaaaaaaAtTCAGtGGagTATCaCTtTACagt	1179
Seq_ID_5	TTcccgGcagatgTtAtTtTaGGagATAatagaatAtTtggTGGTgTtTCatTgTACtcc	1074
Seq_ID_8	TTcccgGcagatgTtAtTtTaGGagATAatagaatAtTtggTGGTgTtTCatTgTACtcc	1074
Seq_ID_16	TTTccgGctgatgtTtAtTtTaGGagATGGcagaatAtCggTGGcgTATCcCTgTAttcc	1097
Seq_ID_13	.....	0
Seq_ID_12	TTTccCaGctataTcAtTtTaGGaAAcaaAaaggatcaAaTt.TgaAaCaCTGCCaaaa	720
Seq_ID_9	gccATCaaGAttgaAttTCaccagcAaacAccagaAactAtcttacaAggTgatTttCga	397
Seq_ID_6	TTTgagaGccatCatAtatTcaacAgcaGcaggaaAaTagCTGagcaAatggcgTttgg	445
Consensus	tt a gc a tggta tct gggaaaata a a aatt g tgg g atc t ta c	
Seq_ID_17	.CCGGGAATTCCAGTTCAAGCGAAAGCTCCATCGTTTCTCAAGAC....ATGCCTAGA	1158
Seq_ID_7	.CtGGGAATTCTAGTTCAAGCGAAAGCTCCtGtcaTgTcgA.....ATGCCaAGA	706
Seq_ID_11	.CtGGGAATTCTA...CAAGCGAtAttCTcgTtaTTCTTgTCAAGAA....tTGctTAGA	932
Seq_ID_14	cCaaaGAcTTCaAactTCAAcatcttCaCtcTatTTgaaTgTtgAaAa...gATgtacac	696
Seq_ID_15	cCaaaGAcTTCaAactTCAAcatcttCaCtcTatTTgaaTgTtgAaAa...gATgtacac	697
Seq_ID_4	cCaaaGAcTTCaAGctTCAAcatcttCaCtcTatTTgaaTgTtgAaAa...gATGgtacac	697
Seq_ID_3	cCaaaGAcTTCCAactTCAAcattcAtCgCtcTatTTgaaTgctggaaA...gAatgCaAGt	696
Seq_ID_10	ggaaaagcaTtaccTagttctGtgAtgcCacTgTgTgtaTgctggaaA....ATGCCagcc	1234
Seq_ID_5	ggCaatccTTtgAccgatgcCaAAttgcCggTgGTTTaTtcCggcgcac..tgTGgtacA	1132
Seq_ID_8	ggCaatccTTtgAccgatgcCaAAttgcCggTgGTTTaTtcCggcgcac..tgTGgtacA	1132
Seq_ID_16	ggCGatccgctCgGggattcaaAgctacCtcTtGTTTactcCggtgac..tgcGggagtc	1155
Seq_ID_13	.....	0
Seq_ID_12	tgCatGttcTtCccTattAtaaAtgttgCttcaGcaaaaggatccccatgcttcaaCTgac	780
Seq_ID_9	gaCaaaAtaTCgtcaaaAAGCacgtGaaatttggatcccTgctttGaaaa.gATGggacac	456
Seq_ID_6	tCgatatcTTggagagtggaaaAgcaCaatgtTtaggagcCcCtttCgtttATGtggg	505
Consensus	c aagacttc a aac a t ct t tt atgc g a atgg a	



Figure 16AH

Seq_ID_17	GGAGAAGGAACTGGAGAAAAATGCACA..CAAATTCGAGTCTGCTATGACAC.....	1209
Seq_ID_7	tGAcAAGGAACTGcAGAAAAATGCACA..CAAATTGtGTCTGtctcGACAA.....	757
Seq_ID_11	taAGcAGGAAtTGcAaAAtgtTaCAGA..CAAATTGtGtGTCTGCAtTGACAA.....	983
Seq_ID_14	GagcAAccAgtaGccccttctGCAtAc.CAGgaTCaCtcaCTGacccttCt.....	747
Seq_ID_15	GagcAAccAgtaGccccttctGCAtAc.CAGgaTCaCtcaCTGacccttCt.....	748
Seq_ID_4	GagcAAccAg.aGccccttctGCAtAc.CAGgaTCaCtcaCTGacccttCtataagggg	755
Seq_ID_3	GatcAAGatg...ctccAttCTGtAgAt.CgtgggCGatGaCTGaTcctgCtatcaaagg	752
Seq_ID_10	aagcAtcaAA.TGGcaAtttATGCACA.....AgTgGtAGTCTGaTtccAgAaaaagttg	1288
Seq_ID_5	aatactGttAtccagGAAAGcTagAtcc.tAAAAaaaGtcGcagGaaAaattttt.....	1186
Seq_ID_8	aatactGttAtccagGAAAGcTagAtcc.tAAAAaaaGtcGcagGaaAaattttt.....	1186
Seq_ID_16	aactctGttAtccagGAAtgCTGgAtcc.ttcAaagGtAGcCgGaaAaattgtat.....	1209
Seq_ID_13	.....	0
Seq_ID_12	GatGctctttatGcaAAgctgGggCAt.tggAccCaaAGaagGtaAaGgtAacta....	835
Seq_ID_9	acAaAgtGAgaaGcAcAAAttgTGatCAc.atggcTaGCAtcaattTAgttCAGcttg...	512
Seq_ID_6	cagcAAaatttcaataAcAgtaGattAtaCAAAaTaaCttaaTatgtacAttgttgc...	565
Consensus	a aa a t g aat tg a a ca a t g g ctga c	
Seq_ID_17	.....GAACGGATCAGTAAGTGACCAATTGTACAAT.G	1241
Seq_ID_7	GAAtGatTCgGTtGtGAGCAtgTGTACAAT.G	789
Seq_ID_11	.....aAACGcATTGtGtGgaaAaCAGTtGAAgT.G	1015
Seq_ID_14	.....	747
Seq_ID_15	.....	748
Seq_ID_4	aaagatagttgtgcctgggtggCGttcgtaacggTGAtaAAggcAagtT.G	814
Seq_ID_3	taagatagtctgtcaaaaagacccaAgtaGtctcaccAGTagtCAAggacgaAAT.G	811
Seq_ID_10	atggaaaattgtatgtgacagagGgAtGaATgcaaggGcacagAAggGTttggTtG	1348
Seq_ID_5	.....tatgcgatagggGAggcaAcgcgtaggGTtgaAAAGGgAgtgcgG	1231
Seq_ID_8	.....tatgcgatagggGAggcaAcgcgtaggGTtgaAAAGGgAgtgcgG	1231
Seq_ID_16	.....tatgtatcgagGccgcaATgttagAGTagagAAAGGAAgtgcgA	1254
Seq_ID_13	.....gAcagAaTtgaAAAGGacaAgctG	25
Seq_ID_12	.....tttagttgtctaagagGAgataATacGaggGTtgaCAAGggGacagcaaG	886
Seq_ID_9	.....ccattttagtaactagcattttGttTgctgAgGatAatAaaaacatgTtG	562
Seq_ID_6	tgttgatcgtcgtaacctctagcctccGAgatgtgTactatgtTGtattAcgtacCtcTaG	625
Consensus	ga t c ggt a aa gg t g	
Seq_ID_17	TAAAAAACACAAAAGTTGCTGGTGGCATCTTCATAACAAATTAC.....ACTGACTTGG	1295
Seq_ID_7	TAAgAAAttCAAAAGTTGCTGGGcGctgTCTTtATAACTAAAtaca.....ACTGACTTGG	843
Seq_ID_11	TgAgAcAttCAAAAtGcTGCTGGTGTGctgTCTTCATAACAAATgACTtgcACTGACTTGG	1075
Seq_ID_14	.....	747
Seq_ID_15	.....	748
Seq_ID_4	TAAAAGgAtgCtggAGgTGtTGGcatgATTcTtATcAatAAATccagaagatggTGtacta	874
Seq_ID_3	TAAAAGgACgCtggAGgcGtTGGcatgATTcTCATcAatAAATccggaaagatggTGtCacta	871
Seq_ID_10	TcAAAAGAtgCtggGgaataGGatgATTTGGcatgAAacAcagACtcttacggAAtgaGt	1408
Seq_ID_5	TgAAgCAGgCAggcGgaGtaGGatgATacTtgctAatttggctgactccggcGAagaac	1291
Seq_ID_8	TgAAgCAGgCAggcGgaGtaGGatgATacTtgctAatttggctgactccggcGAagaac	1291
Seq_ID_16	TgAAAttagCggcGgTGCaGGTatggTCCTggcgAatttagctgactccggcGAagaac	1314
Seq_ID_13	TAAAAGAACgCtggAGgcGtTGGcatgATTcTCATcAatccggctcaggacggTtcaacta	85
Seq_ID_12	ctgctttggCAGgtGcaGtTGGaacgATTAtgcacatctggcGAtgaaa	946
Seq_ID_9	cggcAAAGtCcctgtgTttTcagcagtgTTttcAgtAgAaaAtagttcttTtgcTcat	622
Seq_ID_6	c.....CtCtgAgtaTGtactatGttgtatCATcgtaAccTctagccctccgagtAtgTac	679
Consensus	t aa a gc gg gg gttgg a gat t aa cgga	



Figure 16AI

Seq_ID_17	AATTCTACCTCCAAAGC..GAATTCCCGGCTGTGTTTGAACTTGAAGATGGTGATAA	1353
Seq_ID_7	AATTCTACCTCCAAAGC..GAATTCCCG.....	869
Seq_ID_11	gcgaaTACCTCaAAAc..GAATTCCatCTGTGTTcTGAAtTTccAAaATGGTGATcA	1133
Seq_ID_14	.....	747
Seq_ID_15	.....	748
Seq_ID_4	AATcagctgaagctcat..GtccTtCCaGCatTGgaTgTttcagaTGcAGATGGaaAgAA	932
Seq_ID_3	AATcagctactgctcat..GtccTtCCCGCatTagaTgTttcacatGAAGAaGGaGAgAA	929
Seq_ID_10	tggTgtctgatgcncat..ctcaTaCCaaCaGgtcagTtggtaactGcTGGTGAntt	1466
Seq_ID_5	tcgTCgcCgattcAcat..cttcTCCC GG CgacGaTggTcggtaaaaAAGcTGGaGAcAA	1349
Seq_ID_8	tcgTCgcCgattcAcat..cttcTCCC GG CgacGaTggTcggtaaaaAAGcTGGaGAcAA	1349
Seq_ID_16	tcgTCgcCgattcAcat..cttcTaCCGGCgacaaTggTcggtaaaaAAGccGGTGAcgA	1372
Seq_ID_13	AATcagcCgatgctcat..GtccTtCCGGCcTGgaTgTttcaTTTttGATGGattTcA	143
Seq_ID_12	ttTTTgtctgattctctCtcGtcTTaCCTcGCTacGcaaaaTtAgtTacaactGATGGactTgA	1006
Seq_ID_9	tActAGctacttAtAtt..GccaaattattTGTGgcagctA.CTaaaAtGATGaattTgg	679
Seq_ID_6	tAcgtTgttaTtacgtacCctctAgtCtCtGagtatgTactatgtTgTatcaAcGtaccTct	739
Consensus	t gc t c cat gt t cc gc g gt a gatgga a a	
Seq_ID_17	AGTTTTGGAGTACATCAAGAATAGCCATTCAACCAAAAGCAAGGCTTGAATTCAAGTGAC	1413
Seq_ID_7	.....	869
Seq_ID_11	AGTTTTGaAaTAtgTtAAcAgcActtcTTCACCAAAAGCAAAgaTTGgAcTTCAAGgGAC	1193
Seq_ID_14	.....	747
Seq_ID_15	.....	748
Seq_ID_4	AaTTcTtGccTACATaAAActcaAcgtcgaatCCTgttGCTgcaatCaccTTcCAtGgaAC	992
Seq_ID_3	AaTTaaGGccTAtATAAAttcaActtcaaatCCTAttGCTgcaatTTacATTcCAgGgaAC	989
Seq_ID_10	gaTcnaaaagGTACATtgcttcTgaCagTaatCCAAAtaCcAcaaTTGcATTTggAGgtAC	1526
Seq_ID_5	AaTaagacAcTACgTaAcGtcTgatCcTTCACCcAcgGCgAcGaTcGtgTTcagAGgaAC	1409
Seq_ID_8	AaTaagacAcTACgTaAcGtcTgatCcTTCACCcAcgGCgAcGaTcGtgTTcagAGgaAC	1409
Seq_ID_16	AaTaagGGAtTACgTCAAatcTgattcaTCACCAAAAGCgAcGaTTGtTTcaAAGgaAC	1432
Seq_ID_13	AaTTactGAGTAtATgAAatcaAcaaAgaatCCTgttGCTaGaaTTacATTcCAAGgaAC	203
Seq_ID_12	AcT.....CtTtAgttcaAcaagTatACCTacAGCttccaTTacAcaTCCaAcGAC	1057
Seq_ID_9	caaTagGagccAaaaaAAaAAAaaaagggCggCcg.....	716
Seq_ID_6	AGccTccGAGTAtgTagtatgTAtatcaTtg..tAtctttAGGccTcAaaaaAAaaaAa	797
Consensus	aat ta t a tc a cc a gc a att tt agg ac	
Seq_ID_17	ACATCTTGGTCTAAA...CCAGCACCAAAAGTTGCTAGCTATAGCTCAAGGGGACCATC	1470
Seq_ID_7	.....	869
Seq_ID_11	ACtaaTTGGTgtcgAA...CgAGCACCAgctGTcGCgcattTtTAGtTCgAGGGGgCCATC	1250
Seq_ID_14	.....	747
Seq_ID_15	.....	748
Seq_ID_4	tgtacTTGGaGaTAAA...aatGctCCTatAGTTGCTcaTtTtctTCtcGaGGACCAag	1049
Seq_ID_3	AgtaaTaGGaGaTAAA...aatGctCCTatTTGTGCTcaTtTtctGtcGaGGACCAag	1046
Seq_ID_10	caAgtTgGGcGtccAA...CCAtCACCGgtcGTcGCagctTtTAGtTCcAGaGGgCCAaa	1583
Seq_ID_5	AgtgaTcGGaaaatcAccggCAGCACCAcgtGtaGCggcgTtctcgagccGaGGACCTaa	1469
Seq_ID_8	AgtgaTcGGaaaatcAccggCAGCACCAcgtGtaGCggcgTtctcgagccGaGGACCTaa	1469
Seq_ID_16	tgtaaTcGGaaaatcAccgtCtGctCCAcgtTTGCTggtTtctcaggccGaGGACCCaa	1492
Seq_ID_13	gataaTaGGcGaTAAA...aatGctCCAgcTTGCTggtTtTtcaTCtccGcGGACCAag	260
Seq_ID_12	t.taaTTGGgaacAAA..gCCAGCtCCAgcTaGCagcCTtTtcaTCAtaGGACCTaa	1114
Seq_ID_9	.....	716
Seq_ID_6	AaAaaaaaaaaaaaaAAA.....	813
Consensus	t at gg a aa gc cc t gc tt g ggacc a	

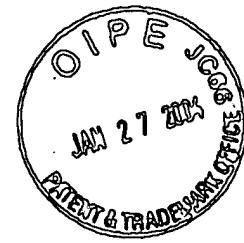


Figure 16AJ

Seq_ID_17	AGAAAGCTGCCCTTTATCCTCAAACCTGACCTGATGGCTCCTGGAGCCTTAATATTAGC	1530
Seq_ID_7	.....	869
Seq_ID_11	AatgAcCTGCCGTTTATCCTCAAACCTGACCTGATGGCTCCaGGtcaCTTAATAcTAGC	1310
Seq_ID_14	.....A.....	748
Seq_ID_15	.....	748
Seq_ID_4	cGAAgcaaGtCgTggcATCtTgAACCTGAtaTtATTGgTCCTGGtGttaatgTccTtGC	1109
Seq_ID_3	ccgAgcaaaaCCCTGgcATCtTaAACCTGAtaTtATTGgTCCTGGtGttaatATccTtGC	1106
Seq_ID_10	cccAAtCacaCCggagATCCTAAACCaGAttTGATAGCaCCaGGtGtCaatATtCtGC	1643
Seq_ID_5	tcAtttgacgCCggagATTCTAAACGcGAtgTtATTGCaCCTGGAGttaacATtTTgGC	1529
Seq_ID_8	tcAtttgacgCCggagATTCTAAACGcGAtgTtATTGCaCCTGGAGttaacATtTTgGC	1529
Seq_ID_16	ttAtgtaacaCCggagATCCTAAACGcGAtgTtActGCaCCaGGAGtCaacATATTAGC	1552
Seq_ID_13	cacAgctaGtCCTGgaATCtTgAACCTGAtaTtATTGgTCCTGGtGttaatgTccTAGC	320
Seq_ID_12	cactgttacaCtggagATCCTtAAggT..ttacgcaggttCatGAtttTTtgacacgaC	1172
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus	a cc g atc t aaacc gat t at g cc gg gt t t gc	
Seq_ID_17	CTCATGGCCTAAAAATCACCGGCAACTCAAATCGCTCAGGAGAGCTTTAGTAACCTT	1590
Seq_ID_7	.....	869
Seq_ID_11	tTCATGGtCTCcActATCAtCtGtgAgTCCaAtA.....actGAaCTTcaCAaTAtCTT	1364
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	tgcTGGCCTacccAgtAgataac...aAcAaa.....aAcacaaaatccAcaTT	1157
Seq_ID_3	tgcTGGCCTaccAccgtgaatatccCcaAcAaa.....aAcacaaaattcTggaTT	1157
Seq_ID_10	tggcTGGaCaggAAAAtggacCAACagttTgCcagaAGacaccaggaaatgtgggTT	1703
Seq_ID_5	CgggTGGaCcggAtctgtggacCgACcgAttTggatattGacacGagaagagtagAaTT	1589
Seq_ID_8	CgggTGGaCcggAtctgtggacCgACcgAttTggatattGacacGagaagagtagAaTT	1589
Seq_ID_16	CgggTGGaCcgggtccatAggacCAACAgAttTggaaattGataccagacgagtggaAaTT	1612
Seq_ID_13	agCtTGGCCTactctgtcgaa..AAC.....aaaaCcaacaccaaATcaAc...aTT	368
Seq_ID_12	aTCtTttCtTgAAAGATCAGgaaaacgcacatctTTtctTgAaagatcaggaaCtt.gAagT	1231
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus	tgg c a a tt	
Seq_ID_17	CAACATCATATCAGGTACGTCAATGTCATGCCCTCATGCAGCTGGTGTAGCAGCACTTCT	1650
Seq_ID_7	.....	869
Seq_ID_11	tAACATtATATCtGGcACaTCcATGTCATGtCCaCACGCTGCcGGTAGCtGCACTTgT	1424
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	CAAtATCATATCAGGcACaTCAATGTCtTGCCCTCA.....	1193
Seq_ID_3	CAAtATCATATCAGGcACaTCAATGTCtTGCCCTCA.....	1193
Seq_ID_10	CAACATCATCtCtGGAACTTCCATGTCATGtCnCAGTgtAagTGGgcTtGCAGCAnTaCT	1763
Seq_ID_5	CAAtATTATtTtGGAACTTCCATGTCqTGCCCTCACGtGggGGatTgGCtGCtTaCT	1649
Seq_ID_8	CAAtATTATtTtGGAACTTCCATGTCqTGCCCTCACGtGggGGatTgGCtGCtTaCT	1649
Seq_ID_16	CAACATATATCtGGTACaTCcATGTCtTGtCCTCATGttagcGGgtTAGCtGCtTaCT	1672
Seq_ID_13	CAACATAATtTCCGGTACcTCtATGTCATGtCCTCACCTtagcGGatTgGCtGCAtTgtT	428
Seq_ID_12	CtgaAgaAgcTatGcTtgaagAAATaTgcgGagCaagTtgAagcacaatAtagtttTgtT	1291
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus	caa at at tc gg ac tc atgtc tg cc ca t t	



Figure 16AK

Seq_ID_17	GAAAGGAGCACACCCAAATGGAGTCCTGCTGCCATCCGGTCGGCATGATGACCACAGC	1710
Seq_ID_7	.....	869
Seq_ID_11	tAAAGGgaCcCACCCtgAATGGAGcCCaGCTGCCATTGtTCGGCCATGATGACTACAGC	1484
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1193
Seq_ID_3	.....	1193
Seq_ID_10	GnAAGccGCcCAtCCagAATGGAGTtnaGggGtnATaaGGTCaGCACtTGATGACtACAGg	1823
Seq_ID_5	tAgAaGgGCcCACCCaAAgTGGAccCCaGCaGCggTaaaGTCAcGCACtTtATGACaACAGC	1709
Seq_ID_8	tAgAaGgGCcCACCCaAAgTGGAccCCaGCaGCggTaaaGTCAcGCACtTtATGACaACAGC	1709
Seq_ID_16	tAgAaaAGCttACCCtAAATGGAccaCaGCaGCCATCaaaTCtGCCcTcATGACaACAGC	1732
Seq_ID_13	aAAAaGcGCgCACCCtActTGGtccCCTGCaGCtATTaaaTCaGcaATcATGACaACcGC	488
Seq_ID_12	ctgttagtagCAgtttAAAgatttTgtcatTtgtAcatcGTgtatagTtcTaAtgtCtGt	1351
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus	a	t t t a c g
Seq_ID_17	CGACACGATGGATAACATGCAAATGCCCATCCGAGACATAGTCG...AACAAATAATGC	1767
Seq_ID_7	.....	869
Seq_ID_11	gGAtgttcTaGAcAACAcAaCAAAgtCCgATCCaAGACATcGGTCGtccagAgAATgcTGC	1544
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1193
Seq_ID_3	.....	1193
Seq_ID_10	ttACAGcAcacAcAAgAatggnnaaatgATagagGAt...GTtGCcacAggAATgtcat	1879
Seq_ID_5	ttACAactTGGAcAAttctggtaaagtatTtacAGAtcTtGccactggccAagA.....	1763
Seq_ID_8	ttACAactTGGAcAAttctggtaaagtatTtacAGAtcTtGccactggccAagA.....	1763
Seq_ID_16	ttACAacgTtGATAACtccggcAaaaCCtTtacAGAtcTcGcgacaggccAggA.....	1786
Seq_ID_13	tGAtACagTcaAcctCgccaAcAatCCCATattAGAtgaAatgCtCcgctctg.....	541
Seq_ID_12	ttttA...GGAggttGAtaaAAATgtgtcatGcaAttTgctTaGgtatAttATtgaca	1407
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus	a	a
Seq_ID_17	TGCCAGTCCCCTAGCCATGGGAGCTGGCGTATCAATCCAAATAAGGCACTAGACCCTGG	1827
Seq_ID_7	.....	869
Seq_ID_11	TGCTAcTCCtCTtGctATGGGAGCTGGCCaTATCAATCCtAAcAAGGCAaTAGAtCCTGG	1604
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1193
Seq_ID_3	.....	1193
Seq_ID_10	a..tAcaCCagTtGatcatGGcGCTGGaCaTgTgAATCCAGcagcaGCtaTgaAtCCTGG	1937
Seq_ID_5	atCtAcTCCCtTcGttcatGGAtCaGGtCaTgTagAccCgAAccgaGCAtTgGAtCCgGG	1823
Seq_ID_8	atCtAcTCCCtTcGttcatGGAtCaGGtCaTgTagAccCgAAccgaGCAtTgGAtCCgGG	1823
Seq_ID_16	atCgAGTCCgtTtGttcacGGgtCgGGtCaTgTggATCCgAAcAgaGCACTAGAtCCaGG	1846
Seq_ID_13	..CaAacatCtTtGCCATTGtGCaGGaCaTgTCAATCCAtcacgaGCAaatGAtCCaGG	599
Seq_ID_12	TtgtgaTCCttcgGtttTttataaTGaaCaatgaAATttgtggAaaaAaaAaAaaaaaaa	1467
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus	g	g c a
		a



Figure 16AL

Seq_ID_17	ACTTATCTATGACATTACATCACAGGACTATATCAATCTCCTCTGTGCTCTAGATTTAC	1887
Seq_ID_7	.....	869
Seq_ID_11	ACTcATCTATGAtAcaACAcCACAAgAtTAcATTaATCTtTGTGCTCTAAATcTcAC	1664
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1193
Seq_ID_3	.....	1193
Seq_ID_10	gtTagnTATGAtcTcACAgAtGACTATATAAActTCCTtTGcGCCTgGATTacAg	1997
Seq_ID_5	ttTgATtTAcGACATcgaAaCtagcGAtTAcgTaAATtTCCTaTGctCcaTgGcTTaTga	1883
Seq_ID_8	ttTgATtTAcGACATcgaAaCtagcGAtTAcgTaAATtTCCTaTGctCcaTtGgcTaTga	1883
Seq_ID_16	tCTTgTCTAcGAtATTgacaCgaAGGAtTAcgTggATTtTaTGcGCcaTtGgTTaTga	1906
Seq_ID_13	ACTagTtTAcGAtAcacaATtcaAGGAtTAcATatcTtattTaTGTGgTtTgdaAaTacAC	659
Seq_ID_12	AaaaAaaaAaaAaA.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus	a a	
Seq_ID_17	ATCTAACAGATAAAAGCCATTACAAGGTCCCTCTGCTTATTCTGTTCCAACTCATCATT	1947
Seq_ID_7	.....	869
Seq_ID_11	ATCcgAgCAGATAAAaCCATCAcTAGGTCC...CTTATaCtTGccCCAAccCATCATT	1721
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1193
Seq_ID_3	.....	1193
Seq_ID_10	tCCaagtatGATcAAgGtCATcgCAAAGcgagaTatTTccTgCgnaaaCAAtaaggataT	2057
Seq_ID_5	cggcgAcgAtgTcgccGtgtTcgCgAGagatTCTtCTcgagtgaATTgCAgtgaAcgAag	1943
Seq_ID_8	cggcgAcgAtgTcgccGtgtTcgCgAGagatTCTtCTcgagtgaATTgCAgtgaAcgAag	1943
Seq_ID_16	tcCcaAAagaATttcAcCgtTcgtgAaagataCTtCTCagtgaATTgCAgCgaAaagaa	1966
Seq_ID_13	AgaTCgACAGATgggAagCcTTctAcaacgCa.....gaaCaaGTTgCtcgaaAgtgaa	713
Seq_ID_12	.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus		
Seq_ID_17	GGATTTAAACTATCCATCATTCAAGGCTATTCATTAAACAGCAGCGAGTCAGACCC	2007
Seq_ID_7	.....	869
Seq_ID_11	GGAccTAAACTATCCATCTTCATTGcCTATTCAAcgtgAAAtAGCAGCGAGTtgGAtCC	1781
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1193
Seq_ID_3	.....	1193
Seq_ID_10	aGAgTTg...CTgaCCtTaATTaccatCTtTTgCcATTccttgGaAaCGgGcCtGgggC	2115
Seq_ID_5	tttggctActccgggAgaccTgAattaCccgTcggttcTccgttacgggtGAgag	2003
Seq_ID_8	tttggctActccgggAgaccTgAattaCccgTcggttcTccgttacgggtGAgag	2003
Seq_ID_16	tttagTtAgtccggggatTTgAattatccaTcggttcTcagttgtatTTGcagtG....	2022
Seq_ID_13	aagTaTtcctgAagCacaActCAattaCccTTcggttTccAtttcacttGg.agca....	768
Seq_ID_12	.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus		



Figure 16AM

Seq_ID_17	TAAAAGGATAACAAGAATTCCAGAGGACGGTACTAATGTAGGAGAAG...	GTATGTCTGT	2064
Seq_ID_7	.....		869
Seq_ID_11	TAcAAGagTACAAGAATTCaAGAGGACaGTGACTAATGTcGGAGAAG...	GTgTGTCgGa	1838
Seq_ID_14	.....		748
Seq_ID_15	.....		748
Seq_ID_4	.....		1193
Seq_ID_3	.....		1193
Seq_ID_10	gAAcAtGcaAatAGtAgTgCAccaacaGtgcacGagAtaTAcGAGgAc...	tctaacaaac	2172
Seq_ID_5	cAAcgGtgTggtaAATaCaAGcGGgtGGTGAA TAATGTAGGAaAAAatacagatgCTGT		2063
Seq_ID_8	cAAcgGtgTggtaAATaCaAGcGGgtGGTGAA TAATGTAGGAaAAAatacagatgCTGT		2063
Seq_ID_16	..AtAGtGtggtGAaaaCaAGcGtgtGGTtAaaATGTtGGcaggaatacAatgCgGT		2080
Seq_ID_13	.....AatcaACAAacATaCacaAGaAcAGTGAcaAAcGTcGGgGAGG...	caATGTCatc	821
Seq_ID_12	.....		1481
Seq_ID_9	.....		716
Seq_ID_6	.....		813
Consensus			
Seq_ID_17	ATATACAGCCAAATTGACCTCAATGGGTGATTATAAAGCTAGTGTGACACCTGACAAGTT		2124
Seq_ID_7	.....		869
Seq_ID_11	ATATACAGCCgAgcTGACtgCAATGccTGgactTAAAGtTAGTGTGttCCTGAaAAGTT		1898
Seq_ID_14	.....		748
Seq_ID_15	.....		748
Seq_ID_4	.....		1193
Seq_ID_3	.....		1193
Seq_ID_10	gTgggaAatCcAgcTacataCAAGGccTcAgTcTcttcgtAaatgcaggaagtgaAgaTT		2232
Seq_ID_5	gTATgaAGtGAAGgTGAatgCgcccGtcgtcggtggAgGtgAaTGTatCACCgGcgAAGcT		2123
Seq_ID_8	gTATgaAGtGAAGgTGAatgCgcccGtcgtcggtggAgGtgAaTGTatCACCgGcgAAGcT		2123
Seq_ID_16	gTATgagGtgAAAaTaAatgCgcccGGGTtcgtggAgGtgAagGTgaCtCCgactAAGcT		2140
Seq_ID_13	tTATcgcGtgAAgaTagttTCAccacaaaATgtTtccGtTgtTGTaagCCTtcaActcT		881
Seq_ID_12	.....		1481
Seq_ID_9	.....		716
Seq_ID_6	.....		813
Consensus			
Seq_ID_17	GGTTTCAAAGAGAAGTATGAAAAGCAAAGCTACAAGCTAAGGATAAGAGTCCATTGCT		2184
Seq_ID_7	.....		869
Seq_ID_11	GGTTTCAAAGAcAAGTATGAAAAGCAAAGCTACAAGCTgAGGATAAGAAtGTCCAcaaCT		1958
Seq_ID_14	.....		748
Seq_ID_15	.....		748
Seq_ID_4	.....		1193
Seq_ID_3	.....		1193
Seq_ID_10	caggTTgAAccAcAAacActtActttcAgtCgAaAg...AAGGAaAagAaaaCCtacaCT		2289
Seq_ID_5	tGTaTTCAgtGAGgAaaAgcAAAGtttgcgTAtgAGAAtAGctTAAgAgtAAAGag		2183
Seq_ID_8	tGTaTTCAgtGAGgAaaAgcAAAGtttgcgTAtgAGAAtAGctTAAgAgtAAAGag		2183
Seq_ID_16	tagTTTtAgcGAGAAaaAtaAgAgtttgcgTAtgAGAAtAGttTtagcaGTaatggag		2200
Seq_ID_13	aaaaATTtAcgaAGttGaATcAgAAAGttgAcaTACcgagTgAcatTttccacaaCAacaaa		941
Seq_ID_12	.....		1481
Seq_ID_9	.....		716
Seq_ID_6	.....		813
Consensus			



Figure 16AN

Seq_ID_17	AGTTGATATTATCTTG . TTTATGGTTCTTGAGCTGGGTGGAAACTAGCGGTAAATATGT	2243
Seq_ID_7	.....	869
Seq_ID_11	gaTgaATgaTtTCTTGgTTcATGGTTCTTtaAGCTGGGTGGAAaggGaGGTAAATATGT	2018
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1193
Seq_ID_3	.....	1193
Seq_ID_10	gtgacATtcacTgcTagTTccaaGccaaTcaGgcacaaacTaGctttgctCGactggaATGg	2349
Seq_ID_5	tGgTGATtTgcagaTGg . TgAaGGgaaTTgaAtCTGcaT . . . ttggGtcGattgaATGg	2238
Seq_ID_8	tGgTGATtTgcagaTGg . TgAaGGgaaTTgaAtCTGcaT . . . ttggGtcGattgaATGg	2238
Seq_ID_16	tGTTGggTggagagag . TaAaaGgTCTTgaAtCaGcaT . . . ttggGtcaattgagTGg	2255
Seq_ID_13	ca TcAcaaacaTggaAGtTGttc . . . AtggatacTtgAaATGg	981
Seq_ID_12	.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus		
Seq_ID_17	TGTAAGGAGTCCCATTGTCGCAACTA . CCATAAGAGTGGATCCTCTGTGAGGACAGAACT	2302
Seq_ID_7	.....	869
Seq_ID_11	aGTtAggAGcCCaATTGTTGCCACaAattcTtAagtTtGATCCTtTGacAGGAAtAGtACT	2078
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	..... C .	1194
Seq_ID_3	..... C .	1194
Seq_ID_10	TcagAtggacaaCATgtTgttgctagcCCAAattGctTtcAgttggacatgattatGctaa	2409
Seq_ID_5	aGTgAtggattCAcaaTgtgAgaaggCCAAattGcGgtGcggtggcGTcActAttctgaT	2298
Seq_ID_8	aGTgAtggattCAcaaTgtgAgaaggCCAAattGcGgtGcggtggcGTcActAttctgaT	2298
Seq_ID_16	aGTgAtggattCAcaGcgtgAggagtCCAAattGcGgtGcattggctactccACtctgCT	2315
Seq_ID_13	acaAgtgAtaagCATTtTgtAAGaagtCCAAattGctgttATTCTacaaGAGcAtgaAACa	1041
Seq_ID_12	.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus		
	c	
Seq_ID_17	GATTATGAGTCCTGTATTCTGAAAATGTGATACAGTGATGAATAATTGTGAAGTTAAATT	2362
Seq_ID_7	.....	869
Seq_ID_11	GATTActga . . . aTATTCCactAAacatgTctttTGAGaAcatgaTaTatAcaTActTg	2134
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1194
Seq_ID_3	.....	1194
Seq_ID_10	ttcTATTAAGTCaTtcAcTgcaAAAtgTacaAgtgcaaattttctATaaaaatAaTTActag	2469
Seq_ID_5	GcagcatccatgTGAGTaaTGAGAtgatTGTtctttatATTgcattgcaTGGAccAAatAaa	2358
Seq_ID_8	GcagcatccatgTGAGTaaTGAGAtgatTGTtctttatATTgcattgcaTGGAccAAatAaa	2358
Seq_ID_16	acagAatctcgAGGAGcaAGcaAGAagatA . attgTGctAAtcTgcAaa	2374
Seq_ID_13	ccagAaGAtTagTG . TctTtActttTtAATAattTGTcAATttaTaatAAccc . cgTa	1098
Seq_ID_12	.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus		



Figure 16AO

Seq_ID_17	CAAAAAAAAAATTTTCAGTTAGTTAAACTAACTTGCTGATTAAAAAAAAAAAAAA	2422
Seq_ID_7	.....	869
Seq_ID_11	tgAAgtgtAgTtcTaTggTcAcantnnAaaAaaaaaaaAaaAAAAAAA	2188
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1194
Seq_ID_3	.....	1194
Seq_ID_10	tgtgcAgcAgctacTcCtcTaAtaTtccACcAACTaaaaaAaTAgccctgAcctAtAAtt	2529
Seq_ID_5	CtgggAtgA.TgacaaattgaAagacgAAaTgttgctagaggatcAtcgAAttgtccAA	2417
Seq_ID_8	CtgggAtgA.TgacaaattgaAagacgAAaTgttgctagaggatcAtcgAAttgtccAA	2417
Seq_ID_16	CtgttAtggcCagaaacaggAacaAggctaAgtTcagaaAggAAAAGgAAAtAgggAAg	2434
Seq_ID_13	ttA..AttgATtgTaTCaaaAtgTAgAAtgAgtgcaaaaATTgctcAtgttttAttctA	1156
Seq_ID_12	.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus		
Seq_ID_17	AAA.....	2425
Seq_ID_7	.....	869
Seq_ID_11	.....	2188
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1194
Seq_ID_3	.....	1194
Seq_ID_10	AAgatgcctaggaaattctagcatctagacaaggaaaatgttggttgatTTgtccagcaa	2589
Seq_ID_5	ctt.taatttcactttttcacccctttgttctctgtatgtttgttcagattgtatatat	2476
Seq_ID_8	ctt.taatttcactttttcacccctttgttctctgtatgtttgttcagattgtatatat	2476
Seq_ID_16	g....aacatctatctgttgaataatgttaagaaaatttcatcattttct...tgt	2487
Seq_ID_13	ctgggtgatatttcccttggtaaaaaaaaaaaaaaaa.....	1193
Seq_ID_12	.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus		



Figure 16AP

Seq_ID_17	.....A.....	2426
Seq_ID_7	.....	869
Seq_ID_11	.....	2188
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1194
Seq_ID_3	.....	1194
Seq_ID_10	aagacAggtgtttacttgccagattattatgtaccaagccacacaatatggataaatac	2649
Seq_ID_5	gaatgAagcataccagttgttcccagaaaaaaaaaaaaaaaaaaaa...	2533
Seq_ID_8	gaatgAagcataccagttgttccacagaaaaaaaaaaaaaaaaaaaa...	2532
Seq_ID_16	ttatgAgtatTTatcag.....ccacaaaaaaaaaaaaaaaaaaaa...	2538
Seq_ID_13	.....	1193
Seq_ID_12	.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus		
Seq_ID_17	.....	2426
Seq_ID_7	.....	869
Seq_ID_11	.....	2188
Seq_ID_14	.....	748
Seq_ID_15	.....	748
Seq_ID_4	.....	1194
Seq_ID_3	.....	1194
Seq_ID_10	aattggcttcgaaaaaaaaaaaaaaaaaaaaaaa	2691
Seq_ID_5	.....	2533
Seq_ID_8	.....	2532
Seq_ID_16	.....	2538
Seq_ID_13	.....	1193
Seq_ID_12	.....	1481
Seq_ID_9	.....	716
Seq_ID_6	.....	813
Consensus		



Figure 16B

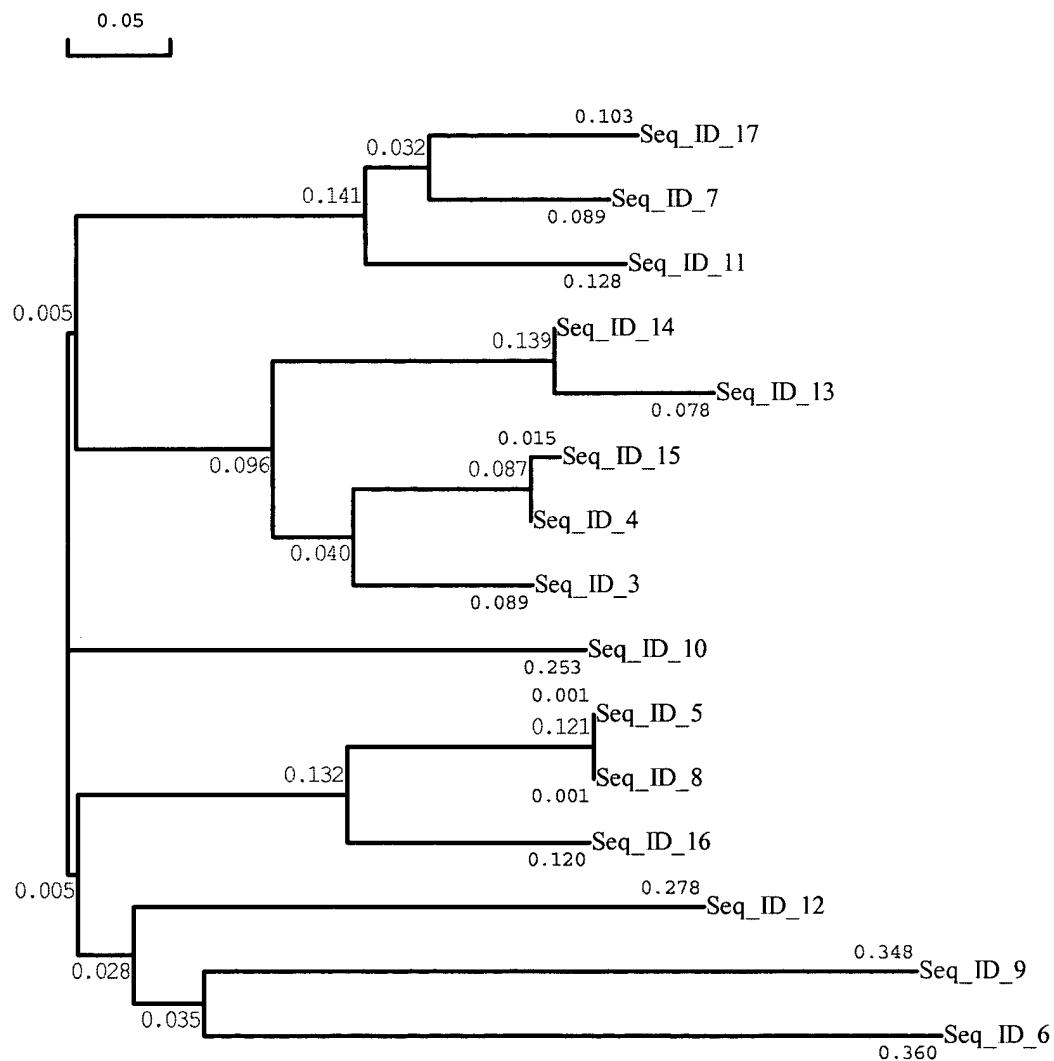
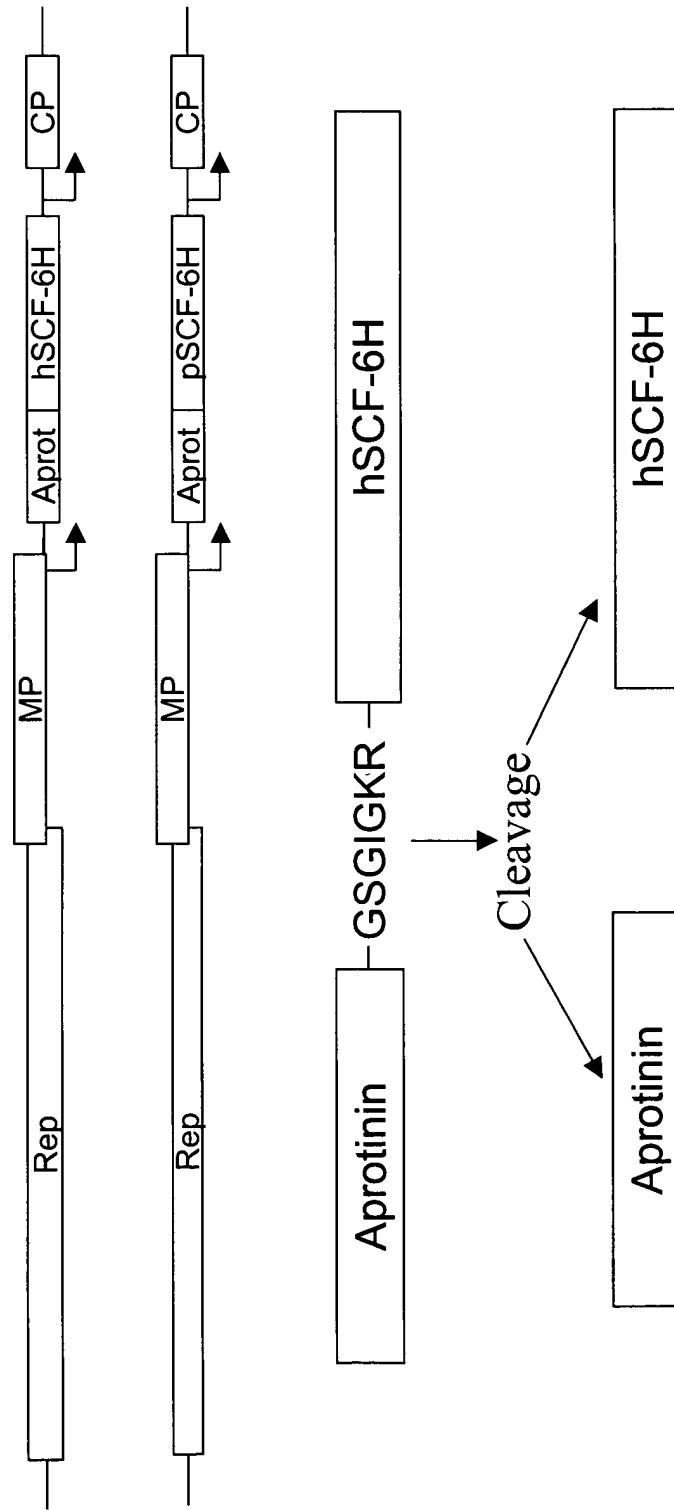




FIGURE 17

Protease Inhibitor-SCF Fusions
GENEWARE® Vector Design





Protease Inhibitor-SCF Fusions
Coomassie Stained Gel

FIGURE 18

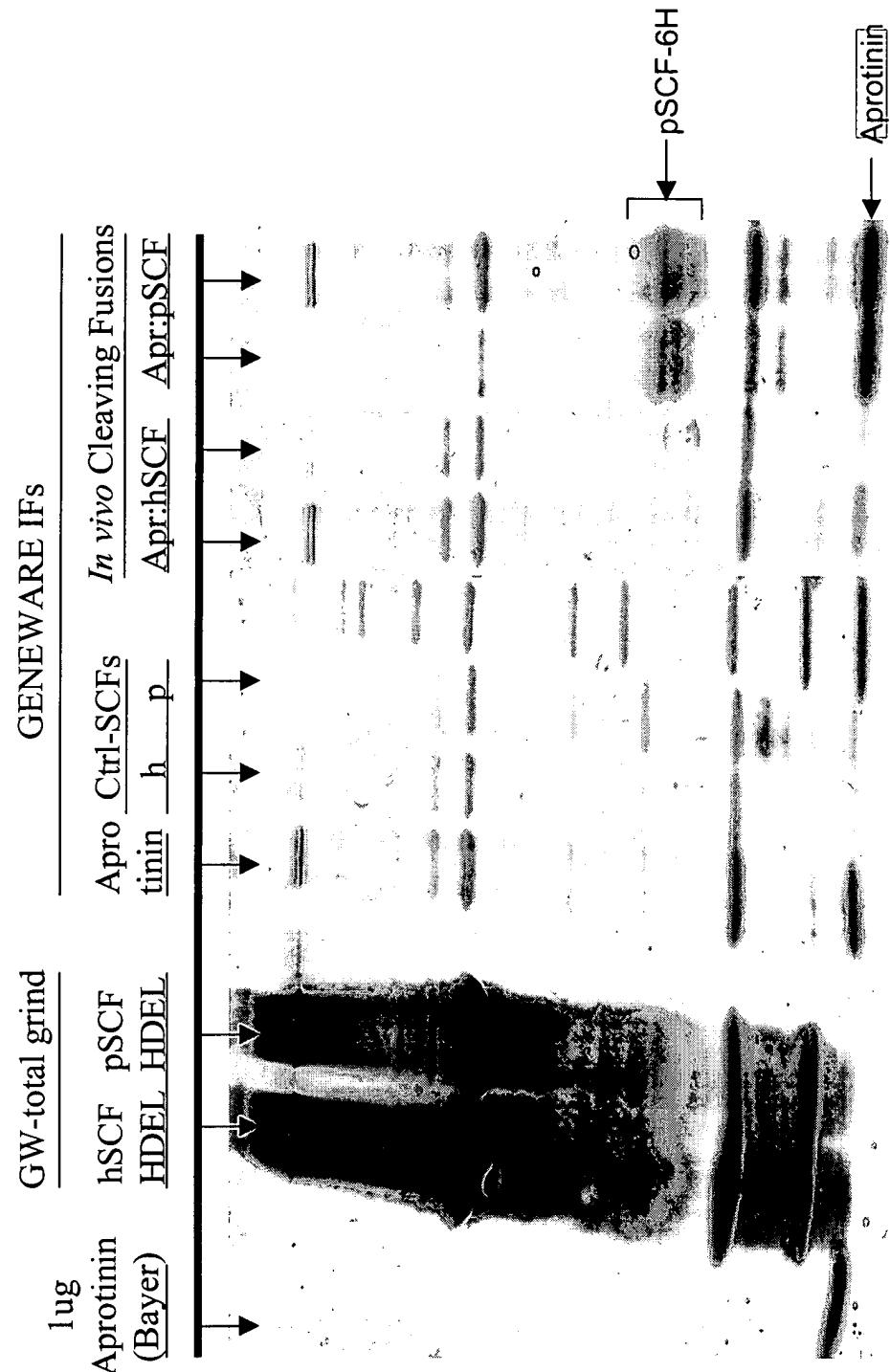
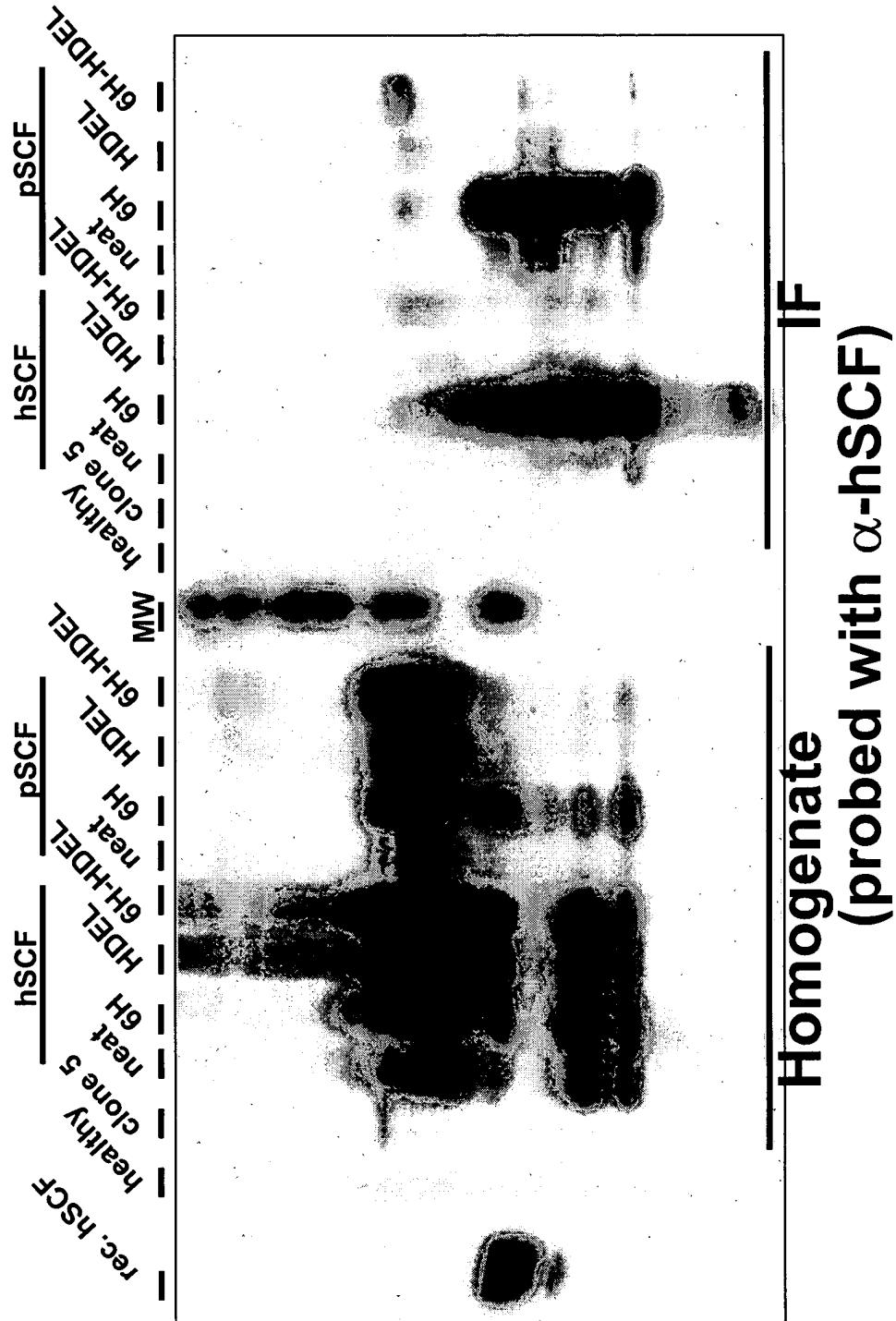




FIGURE 19 Western Blot Analysis of hSCF and pSCF Extracted from Infected Plants





Protease Inhibitor-SCF Fusions Anti-hSCF Western Blot

FIGURE 20

